

# Appendix E

## Laboratory Reports

## LABORATORY REPORT

Prepared For: Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project: Title 22 Testing  
Title 22 Testing

Sampled: 08/14/08  
Received: 08/14/08  
Issued: 10/07/08 07:39

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID  
CRH0590-01

CLIENT ID  
Ryken-Well-S-1

MATRIX  
Water

Reviewed By:



TestAmerica Ontario  
Melissa Cunningham  
Project Manager

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Bromodichloromethane	EPA 524.2	C8H2502	1.0	ND	1	8/25/2008	8/25/2008	
Bromoform	EPA 524.2	C8H2502	1.0	ND	1	8/25/2008	8/25/2008	
Carbon tetrachloride	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Chlorobenzene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Chloroform	EPA 524.2	C8H2502	1.0	ND	1	8/25/2008	8/25/2008	
Dibromochloromethane	EPA 524.2	C8H2502	1.0	ND	1	8/25/2008	8/25/2008	
1,2-Dichlorobenzene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,4-Dichlorobenzene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,1-Dichloroethane	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,2-Dichloroethane	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,1-Dichloroethene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
cis-1,2-Dichloroethene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
trans-1,2-Dichloroethene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,2-Dichloropropane	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
cis-1,3-Dichloropropene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
trans-1,3-Dichloropropene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,3-Dichloropropene, Total	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Ethylbenzene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Methylene chloride	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Styrene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,1,2,2-Tetrachloroethane	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Tetrachloroethene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Toluene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,2,4-Trichlorobenzene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,1,1-Trichloroethane	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
1,1,2-Trichloroethane	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Trichloroethene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Trichlorofluoromethane (Freon 11)	EPA 524.2	C8H2502	5.0	ND	1	8/25/2008	8/25/2008	
Trichlorotrifluoroethane (Freon 113)	EPA 524.2	C8H2502	10	ND	1	8/25/2008	8/25/2008	
Vinyl chloride	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
m,p-Xylenes	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
o-Xylene	EPA 524.2	C8H2502	0.50	ND	1	8/25/2008	8/25/2008	
Xylenes, Total	EPA 524.2	C8H2502	1.0	ND	1	8/25/2008	8/25/2008	
Methyl-tert-butyl Ether (MTBE)	EPA 524.2	C8H2502	3.0	ND	1	8/25/2008	8/25/2008	
Trihalomethanes, Total	EPA 524.2	C8H2502	1.0	<4.0	1	8/25/2008	8/25/2008	
Surrogate: 4-Bromofluorobenzene (70-130%)				77 %				
Surrogate: 1,2-Dichlorobenzene-d4 (70-130%)				90 %				

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Project Manager

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11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## CDHS SRL 524 MODIFIED METHOD FOR 1,2,3-TRICHLOROPROPANE PT/GCMS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ng/L								
1,2,3-Trichloropropane (123-TCP)	SRL 524M-123TCP	C8H1815	5.0	ND	1	8/18/2008	8/19/2008	

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Sampled: 08/14/08  
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## EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
1,2-Dibromoethane (EDB)	EPA 504.1	C8H1515	0.020	ND	0.993	8/15/2008	8/16/2008	
1,2-Dibromo-3-chloropropane	EPA 504.1	C8H1515	0.010	ND	0.993	8/15/2008	8/16/2008	
Surrogate: 4-Bromofluorobenzene (65-154%)				97 %				

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## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Atrazine	EPA 525.2	C8H1511	0.50	ND	1	8/15/2008	8/15/2008	
Benzo(a)pyrene	EPA 525.2	C8H1511	0.10	ND	1	8/15/2008	8/15/2008	
Di(2-ethylhexyl)adipate	EPA 525.2	C8H1511	5.0	ND	1	8/15/2008	8/15/2008	
Di(2-ethylhexyl)phthalate	EPA 525.2	C8H1511	3.0	ND	1	8/15/2008	8/15/2008	
Hexachlorobenzene	EPA 525.2	C8H1511	0.50	ND	1	8/15/2008	8/15/2008	
Hexachlorocyclopentadiene	EPA 525.2	C8H1511	1.0	ND	1	8/15/2008	8/15/2008	
Molinate	EPA 525.2	C8H1511	2.0	ND	1	8/15/2008	8/15/2008	
Simazine	EPA 525.2	C8H1511	1.0	ND	1	8/15/2008	8/15/2008	
Thiobencarb	EPA 525.2	C8H1511	1.0	ND	1	8/15/2008	8/15/2008	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)				93 %				
Surrogate: Triphenylphosphate (70-130%)				95 %				
Surrogate: Perylene-d12 (70-130%)				93 %				

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Sampled: 08/14/08  
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## ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Alachlor	EPA 505	C8H1824	1.0	ND	0.996	8/18/2008	8/19/2008	
Endrin	EPA 505	C8H1824	0.10	ND	0.996	8/18/2008	8/19/2008	
Heptachlor	EPA 505	C8H1824	0.010	ND	0.996	8/18/2008	8/19/2008	C, L
Heptachlor epoxide	EPA 505	C8H1824	0.010	ND	0.996	8/18/2008	8/19/2008	C, L
Lindane (gamma-BHC)	EPA 505	C8H1824	0.20	ND	0.996	8/18/2008	8/19/2008	
Methoxychlor	EPA 505	C8H1824	10	ND	0.996	8/18/2008	8/19/2008	
Chlordane	EPA 505	C8H1824	0.10	ND	0.996	8/18/2008	8/19/2008	
Toxaphene	EPA 505	C8H1824	1.0	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1016	EPA 505	C8H1824	0.26	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1221	EPA 505	C8H1824	0.19	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1232	EPA 505	C8H1824	0.23	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1242	EPA 505	C8H1824	0.26	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1248	EPA 505	C8H1824	0.30	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1254	EPA 505	C8H1824	0.33	ND	0.996	8/18/2008	8/19/2008	
Aroclor 1260	EPA 505	C8H1824	0.36	ND	0.996	8/18/2008	8/19/2008	
PCBs as Decachlorobiphenyl (DCB)	EPA 505	C8H1824	0.50	ND	0.996	8/18/2008	8/19/2008	

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## CHLORINATED ACIDS (EPA 515.4)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Bentazon	EPA 515.4	C8H1808	2.0	ND	1	8/18/2008	8/19/2008	
2,4-D	EPA 515.4	C8H1808	10	ND	1	8/18/2008	8/19/2008	
Dalapon	EPA 515.4	C8H1808	10	ND	1	8/18/2008	8/19/2008	
Dacthal acid metabolites	EPA 515.4	C8H1808	1.0	ND	1	8/18/2008	8/19/2008	
Dicamba	EPA 515.4	C8H1808	1.5	ND	1	8/18/2008	8/19/2008	
Dinoseb	EPA 515.4	C8H1808	2.0	ND	1	8/18/2008	8/19/2008	
Pentachlorophenol	EPA 515.4	C8H1808	0.20	ND	1	8/18/2008	8/19/2008	
Picloram	EPA 515.4	C8H1808	1.0	ND	1	8/18/2008	8/19/2008	
2,4,5-TP (Silvex)	EPA 515.4	C8H1808	1.0	ND	1	8/18/2008	8/19/2008	
Surrogate: 2,4-Dichlorophenylacetic acid (70-130%)				108 %				

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Sampled: 08/14/08  
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## CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Aldicarb Sulfoxide	EPA 531.1	C8H2105	3.0	ND	1	8/21/2008	8/21/2008	
Aldicarb Sulfone	EPA 531.1	C8H2105	2.0	ND	1	8/21/2008	8/21/2008	
Oxamyl	EPA 531.1	C8H2105	20	ND	1	8/21/2008	8/21/2008	
Methomyl	EPA 531.1	C8H2105	2.0	ND	1	8/21/2008	8/21/2008	
3-Hydroxycarbofuran	EPA 531.1	C8H2105	3.0	ND	1	8/21/2008	8/21/2008	
Aldicarb	EPA 531.1	C8H2105	3.0	ND	1	8/21/2008	8/21/2008	
Carbofuran	EPA 531.1	C8H2105	5.0	ND	1	8/21/2008	8/21/2008	
Carbaryl	EPA 531.1	C8H2105	5.0	ND	1	8/21/2008	8/21/2008	

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## ENDOTHALL (EPA 548.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Endothall	EPA 548.1	C8H1807	45	ND	1	8/18/2008	8/19/2008	

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## GLYPHOSATE (EPA 547)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Glyphosate	EPA 547	C8H1602	25	ND	1	8/16/2008	8/16/2008	

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## DIQUAT/PARAQUAT (EPA 549.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Diquat	EPA 549.2	C8H1601	4.0	ND	1	8/16/2008	8/16/2008	
Paraquat	EPA 549.2	C8H1601	20	ND	1	8/16/2008	8/16/2008	

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## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								pH
Reporting Units: Color Units								
Color	SM2120B	C8H1513	1	ND	1	8/15/2008	8/15/2008	
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: NTU								
Turbidity	EPA 180.1	C8H1517	0.10	0.19	1	8/15/2008	8/15/2008	
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: T.O.N.								
Odor	SM2150B	C8H1514	1.0	ND	1	8/15/2008	8/15/2008	

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## FIELD TESTS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: °C								
Temperature	Field Test	C8H1522	1.0	24	1	8/14/2008	8/15/2008	FT
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pH Units								
pH	Field Test	C8H1522	NA	5.8	1	8/14/2008	8/15/2008	FT

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## METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: mg/l								
Hardness (as CaCO <sub>3</sub> )	SM2340B	[CALC]	0.33	320	1	8/15/2008	8/20/2008	
Calcium	EPA 200.7	8H15092	0.10	98	1	8/15/2008	8/20/2008	
Iron	EPA 200.7	8H15092	0.040	ND	1	8/15/2008	8/19/2008	
Magnesium	EPA 200.7	8H15092	0.020	17	1	8/15/2008	8/19/2008	
Potassium	EPA 200.7	8H15092	0.50	6.5	1	8/15/2008	8/19/2008	
Sodium	EPA 200.7	8H15092	0.50	400	1	8/15/2008	8/19/2008	
Mercury	EPA 245.1	8H18089	0.00020	ND	1	8/18/2008	8/18/2008	
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pCi/L								
Uranium pCi/L (CA)	EPA 200.8	8H15098	1.0	8.0	1	8/15/2008	8/15/2008	
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Aluminum	EPA 200.8	8H15098	10	ND	1	8/15/2008	8/15/2008	
Antimony	EPA 200.8	8H15098	2.0	ND	1	8/15/2008	8/15/2008	
Arsenic	EPA 200.8	8H15098	1.0	9.1	1	8/15/2008	8/19/2008	
Barium	EPA 200.8	8H15098	1.0	28	1	8/15/2008	8/15/2008	
Beryllium	EPA 200.8	8H15098	0.50	ND	1	8/15/2008	8/15/2008	C
Cadmium	EPA 200.8	8H15098	1.0	ND	1	8/15/2008	8/15/2008	
Chromium	EPA 200.8	8H15098	2.0	3.4	1	8/15/2008	8/15/2008	
Copper	EPA 200.8	8H15098	2.0	7.1	1	8/15/2008	8/15/2008	
Lead	EPA 200.8	8H15098	1.0	ND	1	8/15/2008	8/19/2008	
Manganese	EPA 200.8	8H15098	1.0	1.3	1	8/15/2008	8/15/2008	
Nickel	EPA 200.8	8H15098	2.0	ND	1	8/15/2008	8/15/2008	
Selenium	EPA 200.8	8H15098	2.0	5.3	1	8/15/2008	8/15/2008	
Silver	EPA 200.8	8H15098	1.0	ND	1	8/15/2008	8/15/2008	
Thallium	EPA 200.8	8H15098	1.0	ND	1	8/15/2008	8/15/2008	C
Zinc	EPA 200.8	8H15098	20	ND	1	8/15/2008	8/15/2008	

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: mg/l								
Alkalinity as CaCO <sub>3</sub>	SM2320B	8H15056	2.0	140	1	8/15/2008	8/15/2008	
Alkalinity as CaCO <sub>3</sub>	SM2320B	8H15056	2.0	140	1	8/15/2008	8/15/2008	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	SM2320B	8H15056	2.0	140	1	8/15/2008	8/15/2008	
Carbonate Alkalinity as CaCO <sub>3</sub>	SM2320B	8H15056	2.0	ND	1	8/15/2008	8/15/2008	
Hydroxide Alkalinity as CaCO <sub>3</sub>	SM2320B	8H15056	2.0	ND	1	8/15/2008	8/15/2008	
Chloride	EPA 300.0	8H15039	25	690	50	8/15/2008	8/15/2008	
Total Cyanide	SM4500-CN-C,E	8H18096	0.025	ND	1	8/18/2008	8/18/2008	
Fluoride	SM 4500-F-C	8H19041	0.10	0.64	1	8/19/2008	8/19/2008	
Nitrate-N	EPA 300.0	8H14050	0.15	3.0	1	8/14/2008	8/15/2008	
Nitrate-NO <sub>3</sub>	EPA 300.0	8H14050	0.50	13	1	8/14/2008	8/15/2008	
Nitrite-N	EPA 300.0	8H14050	3.0	ND	20	8/14/2008	8/15/2008	RL1
Nitrate/Nitrite-N	EPA 300.0	8H14050	0.26	3.0	1	8/14/2008	8/15/2008	
Sulfate	EPA 300.0	8H14050	10	330	20	8/14/2008	8/15/2008	
Surfactants (MBAS)	SM5540-C	8H14114	0.10	ND	1	8/14/2008	8/14/2008	
Total Dissolved Solids	SM2540C	8H18035	10	1700	1	8/18/2008	8/18/2008	
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	8H15063	0.100	7.86	1	8/15/2008	8/15/2008	HFT
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	8H22061	4.0	ND	1	8/22/2008	8/22/2008	
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: umhos/cm @ 25C								
Specific Conductance	SM2510B	8H18034	1.0	2600	1	8/18/2008	8/18/2008	

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Attention: Mike Haslam

Project ID: Title 22 Testing  
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Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## AGGRESSIVE INDEX

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: SI Units								
Aggressive Index	Calc	8H25088	0.010	12	1	8/25/2008	8/25/2008	

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Sampled: 08/14/08  
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## EPA-5 1613B-Tetras

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pg/L								
2,3,7,8-TCDD	EPA-5 1613B-Tetras	8235233	5.0	ND	1	8/21/2008	8/25/2008	
Surrogate: 13C-2,3,7,8-TCDD (25-141%)				61 %				

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Sampled: 08/14/08  
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## EPA 900.0 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pCi/L								
Gross Alpha	EPA 900.0 MOD	8234148	3	14.4	1	8/21/2008	8/25/2008	

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Sampled: 08/14/08  
Received: 08/14/08

## EPA 903.0 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pCi/L								
Radium (total)	EPA 903.0 MOD	8233375	1	0.24	1	8/21/2008	8/25/2008	J

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Sampled: 08/14/08  
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## EPA 904 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pCi/L								
Radium 228	EPA 904 MOD	8233373	1	0.64	1	8/21/2008	8/27/2008	J

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Sampled: 08/14/08  
Received: 08/14/08

## EPA 906.0 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: pCi/L								
Tritium	EPA 906.0 MOD	8234199	500	140	1	8/21/2008	8/22/2008	U

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Sampled: 08/14/08  
Received: 08/14/08

## EPA 100.2

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0590-01 (Ryken-Well-S-1 - Water)								
Reporting Units: MFL								
Asbestos by TEM	EPA 100.2	NA	0.2	ND	1	8/15/2008	8/19/2008	

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Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
<b>Sample ID: Ryken-Well-S-1 (CRH0590-01) - Water</b>					
EPA 150.1	0	08/14/2008 10:30	08/14/2008 13:10	08/15/2008 09:00	08/15/2008 09:00
EPA 180.1	2	08/14/2008 10:30	08/14/2008 13:10	08/15/2008 11:00	08/15/2008 11:00
EPA 300.0	2	08/14/2008 10:30	08/14/2008 13:10	08/14/2008 22:15	08/15/2008 00:15
Nitrite-N				08/14/2008 22:15	08/15/2008 00:29
SM2120B	2	08/14/2008 10:30	08/14/2008 13:10	08/15/2008 10:30	08/15/2008 10:30
SM2150B	1	08/14/2008 10:30	08/14/2008 13:10	08/15/2008 10:00	08/15/2008 10:00
SM5540-C	2	08/14/2008 10:30	08/14/2008 13:10	08/14/2008 20:52	08/14/2008 21:59

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Project ID: Title 22 Testing  
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Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2502 Extracted: 08/25/08</b>										
<b>Blank Analyzed: 08/25/2008 (C8H2502-BLK1)</b>										
Benzene	ND	0.50	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroform	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Methylene chloride	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane (Freon 11)	ND	5.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	10	ug/l							
Vinyl chloride	ND	0.50	ug/l							
m,p-Xylenes	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	3.0	ug/l							
Trihalomethanes, Total	<4.0	1.0	ug/l							

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Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2502 Extracted: 08/25/08</b>									
<b>Blank Analyzed: 08/25/2008 (C8H2502-BLK1)</b>									
Surrogate: 4-Bromofluorobenzene	3.63		ug/l	5.00		73	70-130		
Surrogate: 1,2-Dichlorobenzene-d4	3.77		ug/l	5.00		75	70-130		
<b>LCS Analyzed: 08/25/2008 (C8H2502-BS1)</b>									
Benzene	6.26	0.50	ug/l	5.00		125	70-130		
Bromodichloromethane	5.29	1.0	ug/l	5.00		106	70-130		
Bromoform	4.28	1.0	ug/l	5.00		86	70-130		
Carbon tetrachloride	5.53	0.50	ug/l	5.00		111	70-130		
Chlorobenzene	5.85	0.50	ug/l	5.00		117	70-130		
Chloroform	5.32	1.0	ug/l	5.00		106	70-130		
Dibromochloromethane	4.85	1.0	ug/l	5.00		97	70-130		
1,2-Dichlorobenzene	4.91	0.50	ug/l	5.00		98	70-130		
1,4-Dichlorobenzene	5.30	0.50	ug/l	5.00		106	70-130		
1,1-Dichloroethane	5.68	0.50	ug/l	5.00		114	70-130		
1,2-Dichloroethane	5.14	0.50	ug/l	5.00		103	70-130		
1,1-Dichloroethene	5.08	0.50	ug/l	5.00		102	70-130		
cis-1,2-Dichloroethene	5.75	0.50	ug/l	5.00		115	70-130		
trans-1,2-Dichloroethene	5.44	0.50	ug/l	5.00		109	70-130		
1,2-Dichloropropane	5.81	0.50	ug/l	5.00		116	70-130		
cis-1,3-Dichloropropene	5.18	0.50	ug/l	5.00		104	70-130		
trans-1,3-Dichloropropene	4.89	0.50	ug/l	5.00		98	70-130		
1,3-Dichloropropene, Total	10.1	0.50	ug/l	10.0		101	70-130		
Ethylbenzene	5.43	0.50	ug/l	5.00		109	70-130		
Methylene chloride	5.00	0.50	ug/l	5.00		100	70-130		
Styrene	4.74	0.50	ug/l	5.00		95	70-130		
1,1,2,2-Tetrachloroethane	4.96	0.50	ug/l	5.00		99	70-130		
Tetrachloroethene	5.25	0.50	ug/l	5.00		105	70-130		
Toluene	6.23	0.50	ug/l	5.00		125	70-130		
1,2,4-Trichlorobenzene	4.62	0.50	ug/l	5.00		92	70-130		
1,1,1-Trichloroethane	5.90	0.50	ug/l	5.00		118	70-130		
1,1,2-Trichloroethane	5.16	0.50	ug/l	5.00		103	70-130		
Trichloroethene	5.65	0.50	ug/l	5.00		113	70-130		
Trichlorofluoromethane (Freon 11)	6.24	5.0	ug/l	5.00		125	70-130		
Trichlorotrifluoroethane (Freon 113)	6.18	10	ug/l	5.00		124	70-130		
Vinyl chloride	5.47	0.50	ug/l	5.00		109	70-130		
m,p-Xylenes	10.9	0.50	ug/l	10.0		109	70-130		

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Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2502 Extracted: 08/25/08</b>										
<b>LCS Analyzed: 08/25/2008 (C8H2502-BS1)</b>										
o-Xylene	5.64	0.50	ug/l	5.00		113	70-130			
Xylenes, Total	16.6	1.0	ug/l	15.0		110	70-130			
Methyl-tert-butyl Ether (MTBE)	9.77	3.0	ug/l	10.0		98	70-130			
Trihalomethanes, Total	19.7	1.0	ug/l	20.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	4.50		ug/l	5.00		90	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.36		ug/l	5.00		87	70-130			
<b>Matrix Spike Analyzed: 08/25/2008 (C8H2502-MS1)</b>										
					<b>Source: CRH0652-03</b>					
Benzene	5.56	0.50	ug/l	5.00	ND	111	70-125			
Bromodichloromethane	21.6	1.0	ug/l	5.00	19.2	49	40-150			
Bromoform	14.5	1.0	ug/l	5.00	11.4	63	45-120			
Carbon tetrachloride	4.88	0.50	ug/l	5.00	ND	98	60-140			
Chlorobenzene	5.19	0.50	ug/l	5.00	ND	104	60-125			
Chloroform	11.9	1.0	ug/l	5.00	8.30	73	55-130			
Dibromochloromethane	32.6	1.0	ug/l	5.00	30.9	33	50-130			MHA
1,2-Dichlorobenzene	4.36	0.50	ug/l	5.00	ND	87	60-130			
1,4-Dichlorobenzene	4.70	0.50	ug/l	5.00	ND	94	60-135			
1,1-Dichloroethane	4.98	0.50	ug/l	5.00	ND	100	65-125			
1,2-Dichloroethane	4.32	0.50	ug/l	5.00	ND	86	50-140			
1,1-Dichloroethene	4.53	0.50	ug/l	5.00	ND	91	65-125			
cis-1,2-Dichloroethene	4.95	0.50	ug/l	5.00	ND	99	70-115			
trans-1,2-Dichloroethene	4.72	0.50	ug/l	5.00	ND	94	70-115			
1,2-Dichloropropane	5.09	0.50	ug/l	5.00	ND	102	65-125			
cis-1,3-Dichloropropene	3.82	0.50	ug/l	5.00	ND	76	45-130			
trans-1,3-Dichloropropene	4.00	0.50	ug/l	5.00	ND	80	55-110			
1,3-Dichloropropene, Total	7.82	0.50	ug/l	10.0	ND	78	30-140			
Ethylbenzene	4.96	0.50	ug/l	5.00	ND	99	60-120			
Methylene chloride	4.22	0.50	ug/l	5.00	ND	84	60-110			
Styrene	4.37	0.50	ug/l	5.00	ND	87	25-140			
1,1,2,2-Tetrachloroethane	4.27	0.50	ug/l	5.00	ND	85	50-140			
Tetrachloroethene	7.37	0.50	ug/l	5.00	ND	147	55-135			MI
Toluene	5.55	0.50	ug/l	5.00	ND	111	65-125			
1,2,4-Trichlorobenzene	4.30	0.50	ug/l	5.00	ND	86	45-140			
1,1,1-Trichloroethane	5.00	0.50	ug/l	5.00	ND	100	60-135			
1,1,2-Trichloroethane	4.46	0.50	ug/l	5.00	ND	89	60-130			
Trichloroethene	5.15	0.50	ug/l	5.00	ND	103	75-115			

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Project ID: Title 22 Testing  
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Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2502 Extracted: 08/25/08</b>										
<b>Matrix Spike Analyzed: 08/25/2008 (C8H2502-MS1)</b>					<b>Source: CRH0652-03</b>					
Trichlorofluoromethane (Freon 11)	5.22	5.0	ug/l	5.00	ND	104	65-140			
Trichlorotrifluoroethane (Freon 113)	5.26	10	ug/l	5.00	ND	105	60-135			
Vinyl chloride	4.87	0.50	ug/l	5.00	ND	97	60-130			
m,p-Xylenes	10.0	0.50	ug/l	10.0	ND	100	60-125			
o-Xylene	5.18	0.50	ug/l	5.00	ND	104	75-115			
Xylenes, Total	15.2	1.0	ug/l	15.0	ND	101	60-135			
Methyl-tert-butyl Ether (MTBE)	8.21	3.0	ug/l	10.0	0.240	80	50-130			
Trihalomethanes, Total	80.6	1.0	ug/l	20.0	69.8	54	55-125			M2
Surrogate: 4-Bromofluorobenzene	4.61		ug/l	5.00		92	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.32		ug/l	5.00		86	70-130			
<b>Matrix Spike Dup Analyzed: 08/25/2008 (C8H2502-MSD1)</b>					<b>Source: CRH0652-03</b>					
Benzene	5.92	0.50	ug/l	5.00	ND	118	70-125	6	25	
Bromodichloromethane	21.5	1.0	ug/l	5.00	19.2	47	40-150	1	20	
Bromoform	15.3	1.0	ug/l	5.00	11.4	79	45-120	5	20	
Carbon tetrachloride	5.00	0.50	ug/l	5.00	ND	100	60-140	2	30	
Chlorobenzene	5.72	0.50	ug/l	5.00	ND	114	60-125	10	20	
Chloroform	12.0	1.0	ug/l	5.00	8.30	73	55-130	0	15	
Dibromochloromethane	32.9	1.0	ug/l	5.00	30.9	40	50-130	1	15	MHA
1,2-Dichlorobenzene	4.85	0.50	ug/l	5.00	ND	97	60-130	11	20	
1,4-Dichlorobenzene	5.20	0.50	ug/l	5.00	ND	104	60-135	10	20	
1,1-Dichloroethane	5.33	0.50	ug/l	5.00	ND	107	65-125	7	20	
1,2-Dichloroethane	4.57	0.50	ug/l	5.00	ND	91	50-140	6	30	
1,1-Dichloroethene	4.91	0.50	ug/l	5.00	ND	98	65-125	8	20	
cis-1,2-Dichloroethene	5.38	0.50	ug/l	5.00	ND	108	70-115	8	15	
trans-1,2-Dichloroethene	5.17	0.50	ug/l	5.00	ND	103	70-115	9	20	
1,2-Dichloropropane	5.56	0.50	ug/l	5.00	ND	111	65-125	9	20	
cis-1,3-Dichloropropene	4.07	0.50	ug/l	5.00	ND	81	45-130	6	15	
trans-1,3-Dichloropropene	4.38	0.50	ug/l	5.00	ND	88	55-110	9	20	
1,3-Dichloropropene, Total	8.45	0.50	ug/l	10.0	ND	84	30-140	8	20	
Ethylbenzene	5.26	0.50	ug/l	5.00	ND	105	60-120	6	20	
Methylene chloride	4.70	0.50	ug/l	5.00	ND	94	60-110	11	15	
Styrene	4.78	0.50	ug/l	5.00	ND	96	25-140	9	25	
1,1,2,2-Tetrachloroethane	4.61	0.50	ug/l	5.00	ND	92	50-140	8	30	
Tetrachloroethene	8.36	0.50	ug/l	5.00	ND	167	55-135	13	20	MI
Toluene	5.88	0.50	ug/l	5.00	ND	118	65-125	6	20	

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## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2502 Extracted: 08/25/08</b>										
<b>Matrix Spike Dup Analyzed: 08/25/2008 (C8H2502-MSD1)</b>					<b>Source: CRH0652-03</b>					
1,2,4-Trichlorobenzene	4.98	0.50	ug/l	5.00	ND	100	45-140	15	20	
1,1,1-Trichloroethane	5.16	0.50	ug/l	5.00	ND	103	60-135	3	35	
1,1,2-Trichloroethane	4.94	0.50	ug/l	5.00	ND	99	60-130	10	25	
Trichloroethene	5.47	0.50	ug/l	5.00	ND	109	75-115	6	20	
Trichlorofluoromethane (Freon 11)	5.27	5.0	ug/l	5.00	ND	105	65-140	1	25	
Trichlorotrifluoroethane (Freon 113)	5.40	10	ug/l	5.00	ND	108	60-135	3	25	
Vinyl chloride	5.14	0.50	ug/l	5.00	ND	103	60-130	5	20	
m,p-Xylenes	10.7	0.50	ug/l	10.0	ND	107	60-125	7	20	
o-Xylene	5.53	0.50	ug/l	5.00	ND	111	75-115	7	20	
Xylenes, Total	16.2	1.0	ug/l	15.0	ND	108	60-135	7	20	
Methyl-tert-butyl Ether (MTBE)	9.49	3.0	ug/l	10.0	0.240	92	50-130	14	25	
Trihalomethanes, Total	81.7	1.0	ug/l	20.0	69.8	60	55-125	1	15	
Surrogate: 4-Bromofluorobenzene	4.66		ug/l	5.00		93	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.51		ug/l	5.00		90	70-130			

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## METHOD BLANK/QC DATA

### CDHS SRL 524 MODIFIED METHOD FOR 1,2,3-TRICHLOROPROPANE PT/GCMS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1815 Extracted: 08/18/08</b>									
<b>Blank Analyzed: 08/19/2008 (C8H1815-BLK1)</b>									
1,2,3-Trichloropropane (123-TCP)	ND	5.0	ng/L						
<b>LCS Analyzed: 08/19/2008 (C8H1815-BS1)</b>									
1,2,3-Trichloropropane (123-TCP)	5.11	5.0	ng/L	5.00		102	80-120		
<b>Matrix Spike Analyzed: 08/19/2008 (C8H1815-MS1)</b>									
1,2,3-Trichloropropane (123-TCP)	45.1	5.0	ng/L	50.0	ND	90	45-140		
<b>Matrix Spike Dup Analyzed: 08/19/2008 (C8H1815-MSD1)</b>									
1,2,3-Trichloropropane (123-TCP)	45.4	5.0	ng/L	50.0	ND	91	45-140	1	27

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## METHOD BLANK/QC DATA

### EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1515 Extracted: 08/15/08</b>										
<b>Blank Analyzed: 08/15/2008 (C8H1515-BLK1)</b>										
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
Surrogate: 4-Bromofluorobenzene	9.74		ug/l	5.01		194	65-154			22
<b>LCS Analyzed: 08/15/2008 (C8H1515-BS1)</b>										
1,2-Dibromoethane (EDB)	0.260	0.020	ug/l	0.250		104	70-130			
1,2-Dibromo-3-chloropropane	0.252	0.010	ug/l	0.250		101	70-130			
Surrogate: 4-Bromofluorobenzene	5.06		ug/l	4.99		101	65-154			
<b>LCS Analyzed: 08/16/2008 (C8H1515-BS2)</b>										
1,2-Dibromoethane (EDB)	0.284	0.020	ug/l	0.250		114	70-130			
1,2-Dibromo-3-chloropropane	0.268	0.010	ug/l	0.250		107	70-130			
Surrogate: 4-Bromofluorobenzene	4.70		ug/l	5.01		94	65-154			
<b>LCS Dup Analyzed: 08/16/2008 (C8H1515-BSD1)</b>										
1,2-Dibromoethane (EDB)	0.103	0.020	ug/l	0.100		103	70-130	1	30	
1,2-Dibromo-3-chloropropane	0.105	0.010	ug/l	0.100		105	70-130	4	21	
Surrogate: 4-Bromofluorobenzene	4.47		ug/l	5.00		89	65-154			
<b>Matrix Spike Analyzed: 08/15/2008 (C8H1515-MS1)</b>										
					<b>Source: CRH0344-01</b>					
1,2-Dibromoethane (EDB)	0.259	0.020	ug/l	0.246	ND	105	65-135			
1,2-Dibromo-3-chloropropane	0.246	0.010	ug/l	0.246	ND	100	65-135			
Surrogate: 4-Bromofluorobenzene	5.43		ug/l	4.92		110	65-154			

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## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1511 Extracted: 08/15/08</b>										
<b>Blank Analyzed: 08/15/2008 (C8H1511-BLK1)</b>										
Atrazine	ND	0.50	ug/l							
Benzo(a)pyrene	ND	0.10	ug/l							
Di(2-ethylhexyl)adipate	ND	5.0	ug/l							
Di(2-ethylhexyl)phthalate	ND	3.0	ug/l							
Hexachlorobenzene	ND	0.50	ug/l							
Hexachlorocyclopentadiene	ND	1.0	ug/l							
Molinate	ND	2.0	ug/l							
Simazine	ND	1.0	ug/l							
Thiobencarb	ND	1.0	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.17		ug/l	5.00		103	70-130			
Surrogate: Triphenylphosphate	4.83		ug/l	5.00		97	70-130			
Surrogate: Perylene-d12	4.66		ug/l	5.00		93	70-130			
<b>LCS Analyzed: 08/15/2008 (C8H1511-BS1)</b>										
Atrazine	5.51	0.50	ug/l	5.00		110	70-130			
Benzo(a)pyrene	6.12	0.10	ug/l	5.00		122	70-130			
Di(2-ethylhexyl)adipate	10.1	5.0	ug/l	10.0		101	70-130			
Di(2-ethylhexyl)phthalate	10.7	3.0	ug/l	10.0		107	70-130			
Hexachlorobenzene	5.35	0.50	ug/l	5.00		107	70-130			
Hexachlorocyclopentadiene	10.1	1.0	ug/l	10.0		101	70-130			
Molinate	5.01	2.0	ug/l	5.00		100	70-130			
Simazine	3.94	1.0	ug/l	5.00		79	70-130			
Thiobencarb	5.29	1.0	ug/l	5.00		106	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.92		ug/l	5.00		98	70-130			
Surrogate: Triphenylphosphate	4.69		ug/l	5.00		94	70-130			
Surrogate: Perylene-d12	5.02		ug/l	5.00		100	70-130			
<b>LCS Dup Analyzed: 08/15/2008 (C8H1511-BSD1)</b>										
Atrazine	5.39	0.50	ug/l	5.00		108	70-130	2	10	
Benzo(a)pyrene	6.42	0.10	ug/l	5.00		128	70-130	5	10	
Di(2-ethylhexyl)adipate	10.4	5.0	ug/l	10.0		104	70-130	3	10	
Di(2-ethylhexyl)phthalate	10.8	3.0	ug/l	10.0		108	70-130	0	10	
Hexachlorobenzene	5.60	0.50	ug/l	5.00		112	70-130	4	10	
Hexachlorocyclopentadiene	10.6	1.0	ug/l	10.0		106	70-130	5	15	
Molinate	5.32	2.0	ug/l	5.00		106	70-130	6	10	
Simazine	3.52	1.0	ug/l	5.00		70	70-130	11	10	
Thiobencarb	5.27	1.0	ug/l	5.00		105	70-130	0	5	

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## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Data Qualifiers
<b>Batch: C8H1511 Extracted: 08/15/08</b>								
<b>LCS Dup Analyzed: 08/15/2008 (C8H1511-BSD1)</b>								
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.29		ug/l	5.00		106	70-130	
Surrogate: Triphenylphosphate	4.67		ug/l	5.00		93	70-130	
Surrogate: Perylene-d12	5.22		ug/l	5.00		104	70-130	
<b>Matrix Spike Analyzed: 08/15/2008 (C8H1511-MS1)</b>					<b>Source: CRH0497-01</b>			
Atrazine	5.35	0.50	ug/l	5.00	ND	107	70-130	
Benzo(a)pyrene	6.47	0.10	ug/l	5.00	ND	129	70-130	
Di(2-ethylhexyl)adipate	9.94	5.0	ug/l	10.0	ND	99	70-130	
Di(2-ethylhexyl)phthalate	11.0	3.0	ug/l	10.0	1.11	99	70-130	
Hexachlorobenzene	5.30	0.50	ug/l	5.00	ND	106	70-130	
Hexachlorocyclopentadiene	10.6	1.0	ug/l	10.0	ND	106	70-130	
Molinate	5.13	2.0	ug/l	5.00	ND	103	70-130	
Simazine	4.47	1.0	ug/l	5.00	ND	89	70-130	
Thiobencarb	5.31	1.0	ug/l	5.00	ND	106	70-130	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.56		ug/l	5.00		91	70-130	
Surrogate: Triphenylphosphate	4.80		ug/l	5.00		96	70-130	
Surrogate: Perylene-d12	5.38		ug/l	5.00		108	70-130	

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## METHOD BLANK/QC DATA

### ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1824 Extracted: 08/18/08</b>										
<b>Blank Analyzed: 08/18/2008 (C8H1824-BLK1)</b>										
Alachlor	ND	1.0	ug/l							
Endrin	ND	0.10	ug/l							
Heptachlor	ND	0.010	ug/l							C
Heptachlor epoxide	ND	0.010	ug/l							C
Lindane (gamma-BHC)	ND	0.20	ug/l							
Methoxychlor	ND	10	ug/l							
Chlordane	ND	0.10	ug/l							
Toxaphene	ND	1.0	ug/l							
Aroclor 1016	ND	0.26	ug/l							
Aroclor 1221	ND	0.19	ug/l							
Aroclor 1232	ND	0.23	ug/l							
Aroclor 1242	ND	0.26	ug/l							
Aroclor 1248	ND	0.30	ug/l							
Aroclor 1254	ND	0.33	ug/l							
Aroclor 1260	ND	0.36	ug/l							
PCBs as Decachlorobiphenyl (DCB)	ND	0.50	ug/l							
<b>LCS Analyzed: 08/19/2008 (C8H1824-BS1)</b>										
Alachlor	0.914	1.0	ug/l	0.998		92	45-145			
Endrin	0.0698	0.10	ug/l	0.0998		70	40-155			
Heptachlor	0.123	0.010	ug/l	0.0998		123	65-115			C, L
Heptachlor epoxide	0.120	0.010	ug/l	0.0998		121	65-115			C, L
Lindane (gamma-BHC)	0.108	0.20	ug/l	0.0998		108	65-120			
Methoxychlor	0.373	10	ug/l	0.499		75	50-135			
<b>LCS Analyzed: 08/19/2008 (C8H1824-BS2)</b>										
Aroclor 1016	5.19	0.26	ug/l	4.99		104	70-130			

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## METHOD BLANK/QC DATA

### ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1824 Extracted: 08/18/08</b>										
<b>LCS Dup Analyzed: 08/19/2008 (C8H1824-BSD1)</b>										
Alachlor	0.556	1.0	ug/l	0.599		93	45-145	1	40	
Endrin	0.0385	0.10	ug/l	0.0599		64	40-155	8	35	
Heptachlor	0.0753	0.010	ug/l	0.0599		126	65-115	2	45	C, L
Heptachlor epoxide	0.0771	0.010	ug/l	0.0599		129	65-115	7	20	C, L
Lindane (gamma-BHC)	0.0696	0.20	ug/l	0.0599		116	65-120	7	20	
Methoxychlor	0.183	10	ug/l	0.299		61	50-135	20	40	
<b>Matrix Spike Analyzed: 08/19/2008 (C8H1824-MS1)</b>										
					<b>Source: CRH0376-01</b>					
Alachlor	0.893	1.0	ug/l	0.975	ND	92	65-135			
Endrin	0.0727	0.10	ug/l	0.0975	ND	74	65-135			
Heptachlor	0.129	0.010	ug/l	0.0975	ND	132	65-135			C
Heptachlor epoxide	0.127	0.010	ug/l	0.0975	ND	130	65-135			C
Lindane (gamma-BHC)	0.113	0.20	ug/l	0.0975	ND	116	65-135			
Methoxychlor	0.379	10	ug/l	0.488	ND	78	65-135			

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## METHOD BLANK/QC DATA

### CHLORINATED ACIDS (EPA 515.4)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1808 Extracted: 08/18/08</b>										
<b>Blank Analyzed: 08/19/2008 (C8H1808-BLK1)</b>										
Bentazon	ND	2.0	ug/l							
2,4-D	ND	10	ug/l							
Dalapon	ND	10	ug/l							
Dacthal acid metabolites	ND	1.0	ug/l							
Dicamba	ND	1.5	ug/l							
Dinoseb	ND	2.0	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	1.0	ug/l							
2,4,5-TP (Silvex)	ND	1.0	ug/l							
Surrogate: 2,4-Dichlorophenylacetic acid	17.8		ug/l	20.1		89	70-130			
<b>LCS Analyzed: 08/19/2008 (C8H1808-BS1)</b>										
Bentazon	0.714	2.0	ug/l	0.802		89	70-130			
2,4-D	0.653	10	ug/l	0.802		81	70-130			
Dalapon	0.817	10	ug/l	0.802		102	70-130			
Dacthal acid metabolites	0.723	1.0	ug/l	0.802		90	70-130			
Dicamba	0.364	1.5	ug/l	0.401		91	70-130			
Dinoseb	0.690	2.0	ug/l	0.802		86	70-130			
Pentachlorophenol	0.0735	0.20	ug/l	0.0802		92	70-130			
Picloram	0.361	1.0	ug/l	0.401		90	70-130			
2,4,5-TP (Silvex)	0.198	1.0	ug/l	0.201		99	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	20.8		ug/l	20.1		104	70-130			
<b>LCS Dup Analyzed: 08/19/2008 (C8H1808-BS1)</b>										
Bentazon	2.18	2.0	ug/l	2.41		91	70-130	2	20	
2,4-D	2.08	10	ug/l	2.41		86	70-130	6	20	
Dalapon	2.27	10	ug/l	2.41		94	70-130	8	20	
Dacthal acid metabolites	2.18	1.0	ug/l	2.41		90	70-130	0	20	
Dicamba	1.11	1.5	ug/l	1.20		92	70-130	2	20	
Dinoseb	2.08	2.0	ug/l	2.41		86	70-130	0	20	
Pentachlorophenol	0.223	0.20	ug/l	0.241		93	70-130	1	20	
Picloram	1.07	1.0	ug/l	1.20		89	70-130	1	20	
2,4,5-TP (Silvex)	0.573	1.0	ug/l	0.602		95	70-130	3	20	
Surrogate: 2,4-Dichlorophenylacetic acid	18.9		ug/l	20.1		94	70-130			

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Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### CHLORINATED ACIDS (EPA 515.4)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1808 Extracted: 08/18/08</b>									
<b>Matrix Spike Analyzed: 08/19/2008 (C8H1808-MS1)</b>					<b>Source: CRH0376-01</b>				
Bentazon	0.468	2.0	ug/l	0.800	ND	59	70-130		M2
2,4-D	0.657	10	ug/l	0.800	ND	82	70-130		
Dalapon	2.80	10	ug/l	0.800	ND	350	70-130		M1
Dacthal acid metabolites	0.767	1.0	ug/l	0.800	ND	96	70-130		
Dicamba	0.413	1.5	ug/l	0.400	ND	103	70-130		
Dinoseb	0.689	2.0	ug/l	0.800	ND	86	70-130		
Pentachlorophenol	0.0653	0.20	ug/l	0.0800	ND	82	70-130		
Picloram	0.361	1.0	ug/l	0.400	ND	90	70-130		
2,4,5-TP (Silvex)	0.181	1.0	ug/l	0.200	ND	91	70-130		
Surrogate: 2,4-Dichlorophenylacetic acid	20.1		ug/l	20.0		100	70-130		

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Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2105 Extracted: 08/21/08</b>									
<b>Blank Analyzed: 08/21/2008 (C8H2105-BLK1)</b>									
Aldicarb Sulfoxide	ND	3.0	ug/l						
Aldicarb Sulfone	ND	2.0	ug/l						
Oxamyl	ND	20	ug/l						
Methomyl	ND	2.0	ug/l						
3-Hydroxycarbofuran	ND	3.0	ug/l						
Aldicarb	ND	3.0	ug/l						
Carbofuran	ND	5.0	ug/l						
Carbaryl	ND	5.0	ug/l						
<b>LCS Analyzed: 08/21/2008 (C8H2105-BS1)</b>									
Aldicarb Sulfoxide	10.6	3.0	ug/l	10.0		106	83-127		
Aldicarb Sulfone	10.7	2.0	ug/l	10.0		107	84-126		
Oxamyl	10.9	20	ug/l	10.0		109	84-127		
Methomyl	11.3	2.0	ug/l	10.0		113	76-129		
3-Hydroxycarbofuran	10.9	3.0	ug/l	10.0		109	81-122		
Aldicarb	10.3	3.0	ug/l	10.0		103	77-124		
Carbofuran	10.1	5.0	ug/l	10.0		101	86-118		
Carbaryl	10.5	5.0	ug/l	10.0		105	81-125		
<b>LCS Dup Analyzed: 08/22/2008 (C8H2105-BS1)</b>									
Aldicarb Sulfoxide	19.9	3.0	ug/l	20.0		99	83-127	6	18
Aldicarb Sulfone	20.3	2.0	ug/l	20.0		101	84-126	6	18
Oxamyl	21.0	20	ug/l	20.0		105	84-127	4	17
Methomyl	21.4	2.0	ug/l	20.0		107	76-129	5	18
3-Hydroxycarbofuran	20.6	3.0	ug/l	20.0		103	81-122	6	16
Aldicarb	19.6	3.0	ug/l	20.0		98	77-124	5	23
Carbofuran	18.8	5.0	ug/l	20.0		94	86-118	8	16
Carbaryl	19.8	5.0	ug/l	20.0		99	81-125	6	16

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## METHOD BLANK/QC DATA

### CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2105 Extracted: 08/21/08</b>									
<b>Matrix Spike Analyzed: 08/21/2008 (C8H2105-MS1)</b>					<b>Source: CRH0571-01</b>				
Aldicarb Sulfoxide	21.3	3.0	ug/l	20.0	ND	106	65-135		
Aldicarb Sulfone	21.5	2.0	ug/l	20.0	ND	107	65-135		
Oxamyl	22.0	20	ug/l	20.0	ND	110	65-135		
Methomyl	22.3	2.0	ug/l	20.0	ND	112	65-135		
3-Hydroxycarbofuran	21.8	3.0	ug/l	20.0	ND	109	65-135		
Aldicarb	20.2	3.0	ug/l	20.0	ND	101	65-135		
Carbofuran	20.3	5.0	ug/l	20.0	ND	102	65-135		
Carbaryl	21.2	5.0	ug/l	20.0	ND	106	65-135		

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## METHOD BLANK/QC DATA

### ENDOTHALL (EPA 548.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1807 Extracted: 08/18/08</b>									
<b>Blank Analyzed: 08/19/2008 (C8H1807-BLK1)</b>									
Endothall	ND	45	ug/l						
<b>LCS Analyzed: 08/19/2008 (C8H1807-BS1)</b>									
Endothall	55.4	45	ug/l	50.0		111	45-125		
<b>LCS Dup Analyzed: 08/19/2008 (C8H1807-BSD1)</b>									
Endothall	47.3	45	ug/l	50.0		95	45-125	16	35
<b>Matrix Spike Analyzed: 08/19/2008 (C8H1807-MS1)</b>									
					<b>Source: CRH0621-01</b>				
Endothall	5.78	45	ug/l	50.0	ND	12	45-125		M2

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## METHOD BLANK/QC DATA

### GLYPHOSATE (EPA 547)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1602 Extracted: 08/16/08</b>									
<b>Blank Analyzed: 08/16/2008 (C8H1602-BLK1)</b>									
Glyphosate	ND	25	ug/l						
<b>LCS Analyzed: 08/16/2008 (C8H1602-BS1)</b>									
Glyphosate	20.7	25	ug/l	25.0		83	80-110		
<b>LCS Dup Analyzed: 08/16/2008 (C8H1602-BSD1)</b>									
Glyphosate	42.1	25	ug/l	50.0		84	80-110	1	10
<b>Matrix Spike Analyzed: 08/16/2008 (C8H1602-MS1)</b>									
Glyphosate	21.2	25	ug/l	25.0	ND	85	80-110		

Source: CRH0376-01

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## METHOD BLANK/QC DATA

### DIQUAT/PARAQUAT (EPA 549.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1601 Extracted: 08/16/08</b>										
<b>Blank Analyzed: 08/16/2008 (C8H1601-BLK1)</b>										
Diquat	ND	4.0	ug/l							
Paraquat	ND	20	ug/l							
<b>LCS Analyzed: 08/16/2008 (C8H1601-BS1)</b>										
Diquat	17.3	4.0	ug/l	20.0		87	70-105			
Paraquat	17.7	20	ug/l	20.0		88	55-110			
<b>LCS Dup Analyzed: 08/16/2008 (C8H1601-BSD1)</b>										
Diquat	17.2	4.0	ug/l	20.0		86	70-105	1	15	
Paraquat	17.8	20	ug/l	20.0		89	55-110	1	15	
<b>Matrix Spike Analyzed: 08/16/2008 (C8H1601-MS1)</b>										
					<b>Source: CRII0376-01</b>					
Diquat	19.1	4.0	ug/l	20.0	ND	95	70-105			
Paraquat	18.7	20	ug/l	20.0	ND	94	55-110			

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H1513 Extracted: 08/15/08</b>									
<b>Duplicate Analyzed: 08/15/2008 (C8H1513-DUP1)</b>									
Color	ND	1	Color Units		ND			20	pH
<b>Batch: C8H1514 Extracted: 08/15/08</b>									
<b>Blank Analyzed: 08/15/2008 (C8H1514-BLK1)</b>									
Odor	ND	1.0	T.O.N.						
<b>Batch: C8H1517 Extracted: 08/15/08</b>									
<b>Blank Analyzed: 08/15/2008 (C8H1517-BLK1)</b>									
Turbidity	ND	0.10	NTU						
<b>Duplicate Analyzed: 08/15/2008 (C8H1517-DUP1)</b>									
Turbidity	0.150	0.10	NTU		0.150		0	10	

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H15092 Extracted: 08/15/08</b>										
<b>Blank Analyzed: 08/19/2008-08/20/2008 (8H15092-BLK1)</b>										
Calcium	ND	0.10	mg/l							
Iron	ND	0.040	mg/l							
Magnesium	ND	0.020	mg/l							
Potassium	ND	0.50	mg/l							
Sodium	ND	0.50	mg/l							
<b>LCS Analyzed: 08/19/2008-08/20/2008 (8H15092-BS1)</b>										
Calcium	1.01	0.10	mg/l	1.00		101	85-115			
Iron	0.959	0.040	mg/l	1.00		96	85-115			
Magnesium	0.978	0.020	mg/l	1.00		98	85-115			
Potassium	10.3	0.50	mg/l	10.0		103	85-115			
Sodium	10.0	0.50	mg/l	10.0		100	85-115			
<b>Matrix Spike Analyzed: 08/19/2008-08/20/2008 (8H15092-MS1)</b>										
					<b>Source: IRH0931-01</b>					
Calcium	40.8	0.10	mg/l	1.00	37.6	321	70-130			MHA
Iron	0.959	0.040	mg/l	1.00	ND	96	70-130			
Magnesium	8.87	0.020	mg/l	1.00	7.57	130	70-130			MHA
Potassium	12.7	0.50	mg/l	10.0	2.14	106	70-130			
Sodium	27.6	0.50	mg/l	10.0	17.1	105	70-130			
<b>Matrix Spike Analyzed: 08/19/2008-08/20/2008 (8H15092-MS2)</b>										
					<b>Source: IRH0932-01</b>					
Calcium	47.2	0.10	mg/l	1.00	43.3	391	70-130			MHA
Iron	0.966	0.040	mg/l	1.00	ND	97	70-130			
Magnesium	7.92	0.020	mg/l	1.00	6.61	131	70-130			MHA
Potassium	12.4	0.50	mg/l	10.0	2.15	102	70-130			
Sodium	17.4	0.50	mg/l	10.0	7.67	97	70-130			
<b>Matrix Spike Dup Analyzed: 08/19/2008-08/20/2008 (8H15092-MSD1)</b>										
					<b>Source: IRH0931-01</b>					
Calcium	42.1	0.10	mg/l	1.00	37.6	455	70-130	3	20	MHA
Iron	0.948	0.040	mg/l	1.00	ND	95	70-130	1	20	
Magnesium	8.97	0.020	mg/l	1.00	7.57	141	70-130	1	20	MHA
Potassium	12.6	0.50	mg/l	10.0	2.14	104	70-130	1	20	
Sodium	27.7	0.50	mg/l	10.0	17.1	106	70-130	0	20	

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H15098 Extracted: 08/15/08</b>										
<b>Blank Analyzed: 08/15/2008 (8H15098-BLK1)</b>										
Aluminum	ND	10	ug/l							
Uranium pCi/L (CA)	ND	1.0	pCi/L							
Antimony	ND	2.0	ug/l							
Arsenic	ND	1.0	ug/l							
Barium	ND	1.0	ug/l							
Beryllium	ND	0.50	ug/l							
Cadmium	ND	1.0	ug/l							
Chromium	ND	2.0	ug/l							
Copper	ND	2.0	ug/l							
Lead	ND	1.0	ug/l							
Manganese	ND	1.0	ug/l							
Nickel	ND	2.0	ug/l							
Selenium	ND	2.0	ug/l							
Silver	ND	1.0	ug/l							
Thallium	ND	1.0	ug/l							
Zinc	ND	20	ug/l							
<b>LCS Analyzed: 08/15/2008 (8H15098-BS1)</b>										
Aluminum	79.0	10	ug/l	80.0		99	85-115			
Uranium pCi/L (CA)	53.2	1.0	pCi/L	53.6		99	85-115			
Antimony	75.6	2.0	ug/l	80.0		94	85-115			
Arsenic	75.4	1.0	ug/l	80.0		94	85-115			
Barium	75.4	1.0	ug/l	80.0		94	85-115			
Beryllium	79.2	0.50	ug/l	80.0		99	85-115			
Cadmium	76.7	1.0	ug/l	80.0		96	85-115			
Chromium	77.3	2.0	ug/l	80.0		97	85-115			
Copper	77.1	2.0	ug/l	80.0		96	85-115			
Lead	79.5	1.0	ug/l	80.0		99	85-115			
Manganese	76.7	1.0	ug/l	80.0		96	85-115			
Nickel	78.0	2.0	ug/l	80.0		98	85-115			
Selenium	76.7	2.0	ug/l	80.0		96	85-115			
Silver	76.6	1.0	ug/l	80.0		96	85-115			
Thallium	81.6	1.0	ug/l	80.0		102	85-115			
Zinc	76.9	20	ug/l	80.0		96	85-115			

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H15098 Extracted: 08/15/08</b>										
<b>Matrix Spike Analyzed: 08/15/2008 (8H15098-MS1)</b>					<b>Source: IRH1352-01</b>					
Aluminum	97.1	10	ug/l	80.0	10.1	109	70-130			
Uranium pCi/L (CA)	60.3	1.0	pCi/L	53.6	5.31	103	70-130			
Antimony	78.6	2.0	ug/l	80.0	ND	98	70-130			
Arsenic	80.3	1.0	ug/l	80.0	ND	100	70-130			
Barium	144	1.0	ug/l	80.0	67.5	95	70-130			
Beryllium	96.1	0.50	ug/l	80.0	ND	120	70-130			
Cadmium	75.9	1.0	ug/l	80.0	ND	95	70-130			
Chromium	101	2.0	ug/l	80.0	20.9	100	70-130			
Copper	73.8	2.0	ug/l	80.0	1.67	90	70-130			
Lead	76.6	1.0	ug/l	80.0	ND	96	70-130			
Manganese	81.2	1.0	ug/l	80.0	1.05	100	70-130			
Nickel	77.2	2.0	ug/l	80.0	4.39	91	70-130			
Selenium	85.3	2.0	ug/l	80.0	3.61	102	70-130			
Silver	73.6	1.0	ug/l	80.0	ND	92	70-130			
Thallium	78.2	1.0	ug/l	80.0	ND	98	70-130			
Zinc	75.9	20	ug/l	80.0	4.50	89	70-130			
<b>Matrix Spike Analyzed: 08/15/2008 (8H15098-MS2)</b>					<b>Source: IRH0951-01</b>					
Aluminum	127	10	ug/l	80.0	45.9	102	70-130			
Uranium pCi/L (CA)	58.1	1.0	pCi/L	53.6	2.21	104	70-130			
Antimony	74.6	2.0	ug/l	80.0	ND	93	70-130			
Arsenic	81.2	1.0	ug/l	80.0	2.66	98	70-130			
Barium	97.1	1.0	ug/l	80.0	24.6	91	70-130			
Beryllium	86.9	0.50	ug/l	80.0	ND	109	70-130			
Cadmium	73.5	1.0	ug/l	80.0	ND	92	70-130			
Chromium	79.2	2.0	ug/l	80.0	ND	99	70-130			
Copper	77.2	2.0	ug/l	80.0	1.84	94	70-130			
Lead	78.9	1.0	ug/l	80.0	ND	99	70-130			
Manganese	83.8	1.0	ug/l	80.0	4.87	99	70-130			
Nickel	76.8	2.0	ug/l	80.0	1.15	95	70-130			
Selenium	79.7	2.0	ug/l	80.0	0.801	99	70-130			
Silver	72.5	1.0	ug/l	80.0	ND	91	70-130			
Thallium	79.9	1.0	ug/l	80.0	ND	100	70-130			
Zinc	79.3	20	ug/l	80.0	ND	99	70-130			

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H15098 Extracted: 08/15/08</b>										
<b>Matrix Spike Dup Analyzed: 08/15/2008 (8H15098-MSD1)</b>					<b>Source: IRH1352-01</b>					
Aluminum	95.9	10	ug/l	80.0	10.1	107	70-130	1	20	
Uranium pCi/L (CA)	58.6	1.0	pCi/L	53.6	5.31	99	70-130	3	20	
Antimony	77.2	2.0	ug/l	80.0	ND	97	70-130	2	20	
Arsenic	77.6	1.0	ug/l	80.0	ND	97	70-130	3	20	
Barium	139	1.0	ug/l	80.0	67.5	89	70-130	4	20	
Beryllium	93.8	0.50	ug/l	80.0	ND	117	70-130	2	20	
Cadmium	74.7	1.0	ug/l	80.0	ND	93	70-130	2	20	
Chromium	97.6	2.0	ug/l	80.0	20.9	96	70-130	3	20	
Copper	72.1	2.0	ug/l	80.0	1.67	88	70-130	2	20	
Lead	75.4	1.0	ug/l	80.0	ND	94	70-130	2	20	
Manganese	79.8	1.0	ug/l	80.0	1.05	98	70-130	2	20	
Nickel	75.6	2.0	ug/l	80.0	4.39	89	70-130	2	20	
Selenium	83.1	2.0	ug/l	80.0	3.61	99	70-130	3	20	
Silver	72.2	1.0	ug/l	80.0	ND	90	70-130	2	20	
Thallium	76.9	1.0	ug/l	80.0	ND	96	70-130	2	20	
Zinc	75.0	20	ug/l	80.0	4.50	88	70-130	1	20	

#### **Batch: 8H18089 Extracted: 08/18/08**

##### **Blank Analyzed: 08/18/2008 (8H18089-BLK1)**

Mercury	ND	0.00020	mg/l
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##### **LCS Analyzed: 08/18/2008 (8H18089-BS1)**

Mercury	0.00789	0.00020	mg/l	0.00800	99	85-115
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##### **Matrix Spike Analyzed: 08/18/2008 (8H18089-MS1)**

Mercury	0.00737	0.00020	mg/l	0.00800	ND	92	70-130
---------	---------	---------	------	---------	----	----	--------

##### **Source: IRH0734-01**

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Layne Christensen  
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Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H18089 Extracted: 08/18/08</b>									
<b>Matrix Spike Dup Analyzed: 08/18/2008 (8H18089-MSD1)</b>					<b>Source: 1RH0734-01</b>				
Mercury	0.00741	0.00020	mg/l	0.00800	ND	93	70-130	0	20

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Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H14050 Extracted: 08/14/08</b>										
<b>Blank Analyzed: 08/14/2008 (8H14050-BLK1)</b>										
Nitrate-N	ND	0.11	mg/l							
Nitrate-NO3	ND	0.50	mg/l							
Nitrite-N	ND	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.26	mg/l							
Sulfate	ND	0.50	mg/l							
<b>LCS Analyzed: 08/14/2008 (8H14050-BS1)</b>										
Nitrate-N	1.15	0.11	mg/l	1.13		102	90-110			
Nitrate-NO3	5.11	0.50	mg/l	5.00		102	90-110			
Nitrite-N	1.45	0.15	mg/l	1.52		95	90-110			
Sulfate	10.1	0.50	mg/l	10.0		101	90-110			
<b>Matrix Spike Analyzed: 08/14/2008 (8H14050-MS1)</b>										
					<b>Source: IRH1264-01</b>					
Nitrate-N	4.28	0.11	mg/l	1.13	3.14	102	80-120			
Nitrate-NO3	19.0	0.50	mg/l	5.00	13.9	102	80-120			
Nitrite-N	1.55	0.15	mg/l	1.52	ND	102	80-120			
Sulfate	19.5	0.50	mg/l	10.0	8.92	105	80-120			
<b>Matrix Spike Analyzed: 08/14/2008 (8H14050-MS2)</b>										
					<b>Source: IRH1345-01</b>					
Nitrate-N	4.70	0.22	mg/l	1.13	3.61	97	80-120			
Nitrate-NO3	20.8	1.0	mg/l	5.00	16.0	97	80-120			
Nitrite-N	1.48	0.30	mg/l	1.52	ND	97	80-120			
Sulfate	28.2	1.0	mg/l	10.0	17.9	103	80-120			
<b>Matrix Spike Dup Analyzed: 08/14/2008 (8H14050-MSD1)</b>										
					<b>Source: IRH1264-01</b>					
Nitrate-N	4.24	0.11	mg/l	1.13	3.14	98	80-120	1	20	
Nitrate-NO3	18.8	0.50	mg/l	5.00	13.9	98	80-120	1	20	
Nitrite-N	1.42	0.15	mg/l	1.52	ND	94	80-120	9	20	
Sulfate	18.9	0.50	mg/l	10.0	8.92	100	80-120	3	20	

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Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H14114 Extracted: 08/14/08</b>										
<b>Blank Analyzed: 08/14/2008 (8H14114-BLK1)</b>										
Surfactants (MBAS)	ND	0.10	mg/l							
<b>LCS Analyzed: 08/14/2008 (8H14114-BS1)</b>										
Surfactants (MBAS)	0.259	0.10	mg/l	0.250		103	90-110			
<b>Matrix Spike Analyzed: 08/14/2008 (8H14114-MS1)</b>										
Surfactants (MBAS)	0.275	0.10	mg/l	0.250	ND	110	50-125			
<b>Matrix Spike Dup Analyzed: 08/14/2008 (8H14114-MSD1)</b>										
Surfactants (MBAS)	0.280	0.10	mg/l	0.250	ND	112	50-125	2	20	
<b>Batch: 8H15039 Extracted: 08/15/08</b>										
<b>Blank Analyzed: 08/15/2008 (8H15039-BLK1)</b>										
Chloride	ND	0.50	mg/l							
<b>LCS Analyzed: 08/15/2008 (8H15039-BS1)</b>										
Chloride	4.84	0.50	mg/l	5.00		97	90-110			
<b>Matrix Spike Analyzed: 08/15/2008 (8H15039-MS1)</b>										
Chloride	23.9	0.50	mg/l	5.00	18.8	101	80-120			
<b>Matrix Spike Analyzed: 08/15/2008 (8H15039-MS2)</b>										
Chloride	282	5.0	mg/l	100	205	77	80-120			M2
<b>Matrix Spike Dup Analyzed: 08/15/2008 (8H15039-MSD1)</b>										
Chloride	23.9	0.50	mg/l	5.00	18.8	102	80-120	0	20	

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Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H15056 Extracted: 08/15/08</b>										
<b>Blank Analyzed: 08/15/2008 (8H15056-BLK1)</b>										
Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l							
Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l							
Bicarbonate Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l							
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l							
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l							
<b>Duplicate Analyzed: 08/15/2008 (8H15056-DUP1)</b>					<b>Source: CRH0590-01</b>					
Alkalinity as CaCO <sub>3</sub>	134	2.0	mg/l		136			1	20	
Alkalinity as CaCO <sub>3</sub>	134	2.0	mg/l		136			1	20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	134	2.0	mg/l		136			1	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l		ND				20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l		ND				20	
<b>Reference Analyzed: 08/15/2008 (8H15056-SRM1)</b>										
Alkalinity as CaCO <sub>3</sub>	234	2.0	mg/l	249		94	90-110			
Alkalinity as CaCO <sub>3</sub>	234	2.0	mg/l	249		94	90-110			
<b>Batch: 8H15063 Extracted: 08/15/08</b>										
<b>Duplicate Analyzed: 08/15/2008 (8H15063-DUP1)</b>					<b>Source: IRH1286-02</b>					
pH	7.28	0.100	pH Units		7.24			1	5	HFT
<b>Batch: 8H18034 Extracted: 08/18/08</b>										
<b>Duplicate Analyzed: 08/18/2008 (8H18034-DUP1)</b>					<b>Source: IRI11336-01</b>					
Specific Conductance	432	1.0	umhos/cm @ 25C		423			2	5	

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Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H18034 Extracted: 08/18/08</b>										
<b>Reference Analyzed: 08/18/2008 (8H18034-SRM1)</b>										
Specific Conductance	561	1.0	umhos/cm @ 25C	530		106	90-110			
<b>Batch: 8H18035 Extracted: 08/18/08</b>										
<b>Blank Analyzed: 08/18/2008 (8H18035-BLK1)</b>										
Total Dissolved Solids	ND	10	mg/l							
<b>LCS Analyzed: 08/18/2008 (8H18035-BS1)</b>										
Total Dissolved Solids	980	10	mg/l	1000		98	90-110			
<b>Duplicate Analyzed: 08/18/2008 (8H18035-DUP1)</b>										
Total Dissolved Solids	226	10	mg/l		Source: IRH1042-03 225			0	10	
<b>Batch: 8H18096 Extracted: 08/18/08</b>										
<b>Blank Analyzed: 08/18/2008 (8H18096-BLK1)</b>										
Total Cyanide	ND	0.025	mg/l							
<b>LCS Analyzed: 08/18/2008 (8H18096-BS1)</b>										
Total Cyanide	0.190	0.025	mg/l	0.200		95	90-110			
<b>Matrix Spike Analyzed: 08/18/2008 (8H18096-MS1)</b>										
Total Cyanide	0.202	0.025	mg/l	0.200	Source: IRH1501-01 ND	101	70-115			
<b>Matrix Spike Dup Analyzed: 08/18/2008 (8H18096-MSD1)</b>										
Total Cyanide	0.191	0.025	mg/l	0.200	Source: IRH1501-01 ND	96	70-115	5	15	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H19041 Extracted: 08/19/08</b>										
<b>Blank Analyzed: 08/19/2008 (8H19041-BLK1)</b>										
Fluoride	ND	0.10	mg/l							
<b>LCS Analyzed: 08/19/2008 (8H19041-BS1)</b>										
Fluoride	1.04	0.10	mg/l	1.00		104	90-110			
<b>Matrix Spike Analyzed: 08/19/2008 (8H19041-MS1)</b>										
Fluoride	1.61	0.10	mg/l	1.00	0.626	99	80-120			
<b>Matrix Spike Dup Analyzed: 08/19/2008 (8H19041-MSD1)</b>										
Fluoride	1.72	0.10	mg/l	1.00	0.626	109	80-120	6	20	
<b>Batch: 8H22061 Extracted: 08/22/08</b>										
<b>Blank Analyzed: 08/22/2008 (8H22061-BLK1)</b>										
Perchlorate	ND	4.0	ug/l							
<b>LCS Analyzed: 08/22/2008 (8H22061-BS1)</b>										
Perchlorate	26.6	4.0	ug/l	25.0		106	85-115			
<b>Matrix Spike Analyzed: 08/22/2008 (8H22061-MS1)</b>										
Perchlorate	297	40	ug/l	250	93.9	81	80-120			
<b>Matrix Spike Dup Analyzed: 08/22/2008 (8H22061-MSD1)</b>										
Perchlorate	311	40	ug/l	250	93.9	87	80-120	5	20	

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Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

## METHOD BLANK/QC DATA

### EPA-5 1613B-Tetras

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8235233 Extracted: 08/21/08</b>									
<b>Blank Analyzed: 08/25/2008 (G8H220000233B)</b>					<b>Source:</b>				
2,3,7,8-TCDD	ND	5.0	pg/L			-			
Surrogate: 13C-2,3,7,8-TCDD	1200		pg/L	2000		61	25-141		
<b>LCS Analyzed: 08/25/2008 (G8H220000233C)</b>					<b>Source:</b>				
2,3,7,8-TCDD	177	4.9	pg/L	200		89	73-146		
Surrogate: 13C-2,3,7,8-TCDD	1290		pg/L	2000		65	25-141		

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## METHOD BLANK/QC DATA

### EPA 900.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8234148 Extracted: 08/21/08</b>									
<b>Matrix Spike Analyzed: 08/25/2008 (F8H200272001S)</b>					<b>Source: CRH0590-01</b>				
Gross Alpha	202	3	pCi/L	260	14.4	72	44-150		
<b>Duplicate Analyzed: 08/25/2008 (F8H200272001X)</b>					<b>Source:</b>				
Gross Alpha	6.5	3	pCi/L				-	75	40 U
<b>Blank Analyzed: 08/25/2008 (F8H210000148B)</b>					<b>Source:</b>				
Gross Alpha	-0.04	3	pCi/L				-		U
<b>LCS Analyzed: 08/25/2008 (F8H210000148C)</b>					<b>Source:</b>				
Gross Alpha	52.8	3	pCi/L	49.4		107	72-138		

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## METHOD BLANK/QC DATA

### EPA 903.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8233375 Extracted: 08/21/08</b>									
<b>Blank Analyzed: 08/25/2008 (F8H200000375B)</b>					<b>Source:</b>				
Radium (total)	-0.005	1	pCi/L			-			U
<b>LCS Analyzed: 08/25/2008 (F8H200000375C)</b>					<b>Source:</b>				
Radium (total)	11	1	pCi/L	11.3		97	71-125		
<b>LCS Dup Analyzed: 08/25/2008 (F8H200000375L)</b>					<b>Source:</b>				
Radium (total)	11	1	pCi/L	11.3		98	71-125	0	40

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## METHOD BLANK/QC DATA

### EPA 904 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8233373 Extracted: 08/20/08</b>										
<b>Blank Analyzed: 08/27/2008 (F8H200000373B)</b>										
Radium 228	0.31	1	pCi/L		Source:		-			U
<b>LCS Analyzed: 08/27/2008 (F8H200000373C)</b>										
Radium 228	7.25	1	pCi/L	7.69	Source:	94	61-139			
<b>LCS Dup Analyzed: 08/27/2008 (F8H200000373L)</b>										
Radium 228	8.4	1	pCi/L	7.69	Source:	109	61-139	14	40	

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## METHOD BLANK/QC DATA

### EPA 906.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8234199 Extracted: 08/21/08</b>										
<b>Matrix Spike Analyzed: 08/22/2008 (F8H200272001S)</b>					<b>Source: CRH0590-01</b>					
Tritium	4910	500	pCi/L	4930	140	97	27-150			
<b>Duplicate Analyzed: 08/22/2008 (F8H200272001X)</b>					<b>Source:</b>					
Tritium	130	500	pCi/L				-	10	40	U
<b>Blank Analyzed: 08/22/2008 (F8H210000199B)</b>					<b>Source:</b>					
Tritium	240	500	pCi/L				-			U
<b>LCS Analyzed: 08/22/2008 (F8H210000199C)</b>					<b>Source:</b>					
Tritium	4980	500	pCi/L	4930		101	67-111			

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## DATA QUALIFIERS AND DEFINITIONS

<b>C</b>	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
<b>FT</b>	This analysis was performed in the field by the sampler whose name appears on the attached Chain of Custody form.
<b>HFT</b>	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
<b>J</b>	Result is greater than sample detection limit but less than stated reporting limit.
<b>L</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
<b>M1</b>	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>M2</b>	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>MHA</b>	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
<b>pH</b>	pH = 7.5
<b>R-7</b>	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
<b>RL1</b>	Reporting limit raised due to sample matrix effects.
<b>U</b>	Result is less than the sample detection limit.
<b>Z2</b>	Surrogate recovery was above the acceptance limits. Data not impacted.
<b>ND</b>	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
<b>RPD</b>	Relative Percent Difference
<b>T.O.N.</b>	Threshold Odor Number
<b>SI Units</b>	Saturation Index Units

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Sampled: 08/14/08  
Received: 08/14/08

## Certification Summary

### TestAmerica Ontario

Method	Matrix	Nelac	California
EPA 180.1	Water	X	X
EPA 504.1	Water	X	X
EPA 505	Water	X	X
EPA 515.4	Water	X	X
EPA 524.2	Water	X	X
EPA 525.2	Water	X	X
EPA 531.1	Water	X	
EPA 547	Water	X	X
EPA 548.1	Water	X	X
EPA 549.2	Water	X	X
Field Test	Water		
SM2120B	Water	N/A	N/A
SM2150B	Water	N/A	N/A
SRL 524M-123TCP	Water		

### Subcontracted Laboratories

#### EMS Laboratories-Sub California Cert #1119

117 West Bellvue Drive - Pasadena, CA 91105-2503

Method Performed: EPA 100.2  
Samples: CRH0590-01

#### STL - St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: EPA 900.0 MOD  
Samples: CRH0590-01

Method Performed: EPA 903.0 MOD  
Samples: CRH0590-01

Method Performed: EPA 904 MOD  
Samples: CRH0590-01

Method Performed: EPA 906.0 MOD  
Samples: CRH0590-01

#### STL-Sacramento Nelac Cert #01119CA, Arizona Cert #AZ0708

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B-Tetras  
Samples: CRH0590-01

### TestAmerica Ontario

Melissa Cunningham  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

CRH0590 <Page 59 of 60>



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1014 E. Cooley Dr. Ste A, Colton, CA 92324 (909) 370-1667 Fax: (909) 370-1046

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0590

Sampled: 08/14/08  
Received: 08/14/08

**TestAmerica - Irvine, CA** *Nelac Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA-72*

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: Calc  
Samples: CRH0590-01

Method Performed: EPA 150.1  
Samples: CRH0590-01

Method Performed: EPA 200.7  
Samples: CRH0590-01

Method Performed: EPA 200.8  
Samples: CRH0590-01

Method Performed: EPA 245.1  
Samples: CRH0590-01

Method Performed: EPA 300.0  
Samples: CRH0590-01

Method Performed: EPA 314.0  
Samples: CRH0590-01

Method Performed: SM 4500-F-C  
Samples: CRH0590-01

Method Performed: SM2320B  
Samples: CRH0590-01

Method Performed: SM2340B  
Samples: CRH0590-01

Method Performed: SM2510B  
Samples: CRH0590-01

Method Performed: SM2540C  
Samples: CRH0590-01

Method Performed: SM4500-CN-C,E  
Samples: CRH0590-01

Method Performed: SM5540-C  
Samples: CRH0590-01

## TestAmerica Ontario

Melissa Cunningham  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

CRH0590 <Page 60 of 60>



Del Mar Analytical

Providing Quality Environmental Laboratory Services

2852 Allon Avenue, Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228  
1014 East Cooley Drive, Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
9484 Chesapeake Dr., Ste. 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9889  
9830 South 51st, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
2520 East Sunset, #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3821

DRINKING WATER CHAIN OF CUSTODY FORM

CRH0590

Page 1 of 1

Client Name: <u>Layne Christensen Company</u>		P.O./Project Name: <u>Hepler Lake 27-1643.02.10-W.Q.</u>	
Address: <u>11001 Finwarda Ave.</u>		Project Manager: <u>Victor Jackowich</u>	
City: <u>Fontana</u>	State: <u>CA</u>	Zip: <u>92337</u>	POE #:
Tel: <u>(909) 350-2833</u>		Fax: <u>(909) 390-6097</u>	
Data to state's database? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		PWS ID#:	
Sampler(s) Name & Signature:			
Sample I.D.	Date Sampled	Time	Matrix (see Matrix Table)
<u>RYKEN-Well-S-1</u>	<u>8/14</u>	<u>1030</u>	<u>GW</u>
Samples acidified after dechlorination? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Inorganic Chemicals (see fee schedule)			
General Physical (see fee schedule)			
General Minerals (see fee schedule)			
Metals (Specify)			
Heterotrophic Plate Count (HPC)			
Coliform, Total <input type="checkbox"/> Fecal <input type="checkbox"/>			
Diquat/Paraquat 549.2			
Endothal 548.1			
Glyphosate 547			
Carbamates 531.1			
Chlorinated Acids 515.3			
Pesticides and PCBs 505 <input type="checkbox"/> 508.1 <input type="checkbox"/>			
EDB / DBCP / TCP 504.1			
Semi-volatiles Reg. <input type="checkbox"/> UnReg. <input type="checkbox"/> 525.2			
Trihalomethanes Only 524.2			
Volatiles Reg. <input type="checkbox"/> UnReg. <input type="checkbox"/> 524.2			
Number of Containers			
Relinquished by: <u>[Signature]</u>			
Date/Time: <u>8-14-08</u> / <u>1200</u>			
Received by: <u>[Signature]</u>			
Date/Time: <u>8-14-08</u> / <u>1310</u>			
Relinquished by: <u>[Signature]</u>			
Date/Time: <u>8-14-08</u> / <u>1310</u>			
Received in Lab by:			
Date/Time:			
Remarks:			
Matrix Types DW - Drinking Water SW - Surface Water RW - Raw Water (Source) GW - Groundwater RW - Recreational Water TW - Treated Water (Point of Entry)			
Turnaround Time* (check one) Normal <input checked="" type="checkbox"/> 7 day 72 Hours <input type="checkbox"/> 48 hours 24 Hours <input type="checkbox"/> Immediate *Surcharges may be applied for remaining hold time <48 hours			
Sample Integrity: Temp: <u>25</u> Intact: <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>			

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days. All work is subject to Del Mar Analytical's terms and conditions unless previously agreed to in writing.

Form Rev. 3-27-03

## SUBCONTRACT ORDER

TestAmerica Ontario  
CRH0590

123268

SENDING LABORATORY:TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa CunninghamRECEIVING LABORATORY:EMS Laboratories-Sub  
117 West Bellvue Drive  
Pasadena, CA 91105-2503  
Phone :626-568-4065  
Fax: 626-796-5282  
Project Location: California  
Receipt Temperature: \_\_\_\_\_ °C      Ice: Y / N

Analysis	Units	Due	Expires	Comments
----------	-------	-----	---------	----------

Sample ID: CRH0590-01	Water	Sampled: 08/14/08 10:30		
-----------------------	-------	-------------------------	--	--

Asbestos By TEM-O	Present/Not Pr	08/27/08	08/16/08 10:30	
-------------------	----------------	----------	----------------	--

Containers Supplied:

1 Liter Poly w/ Nitric  
Acid (Z)

Michael Osseco 8-15-08 1030

Released By

Date/Time

Received By

Date/Time

8-15-08 10:38

Released By

Date/Time

Received By

Date/Time

Page 1 of 1

DATE: August 21, 2008  
CLIENT: TestAmerica, Ontario  
1014 E. Cooley Dr, Ste. A  
Colton, CA 92324  
ATTENTION: Melissa Cunningham  
REFERENCE: CRH0590  
REPORT NO: 123268  
SUBJECT: ANALYSIS OF WATER SAMPLE FOR ASBESTOS BY TEM  
ACCREDITED: California Department of Health Services (ELAP-1119)

The date and times of collection, receipt, filtration, and analysis are as follows:

SAMPLE NO: CRH0590-01  
COLLECTED: 8/14/08 at 1030  
RECEIVED: 8/15/08  
FILTERED: 8/15/08 at 1120  
ANALYZED: 8/19/08

The sample was analyzed for fibers  $>10\ \mu\text{m}$  in length to conform with the drinking water document, EPA 600 R 94 134, 100.2. This regulation calls for an MCL (maximum contaminant level) of 7 MFL and an analytical sensitivity level of 0.2 MFL.

No asbestos structures  $>10\ \mu\text{m}$  in length were detected. The analytical sensitivity of 0.2 MFL was reached.

The results of the analysis and the detection limit are summarized on the following pages.

Respectfully submitted,  
EMS LABORATORIES, INC.

  
B. M. Kolk  
Laboratory Director

BMK/mt

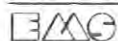
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.



LAB NO: 123268  
CLIENT: Test America  
8/19/2008

\* FOR FIBERS > 10μm ONLY

\* FOR FIBERS > 10um ONLY

Bm Volk  
Authorized Signature

EAG

**Analysis of Water by Transmission Electron Microscopy  
(EPA-600 R 94 134) EPA 100.2**

EMS No. 123268

Client Test America

Sample No. CRH0590-01

Date Analyzed 8/19/2008

Fibers > 10 µm in length (chrysotile)	<u>BDL*</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Poisson 95% Confidence Interval	<u>0 to 0.7</u>	MFL
Detection Limit	<u>0.2</u>	MFL

\* BDL : Below Detection Limit; MFL: Million Fibers per Liter

**Particle Size Distribution ( Chrysotile )**

Particle Length - Microns							
0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 - 4.99	5.00 - 9.99	10 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Particle Width - Microns							
0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 - .49	.50 - .99	1 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Aspect Ratio L/W							
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 - 99	100 - 199	200 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

TEM 7B (1994)

**Analysis of Water by Transmission Electron Microscopy  
(EPA-600/4-83-043)**

**EMS No.** 123268

**Date Analyzed** 8/19/2008

**Client** Test America

**Sample No.** EMS BLANK

Fibers (chrysotile)	<u>ND</u>	MFL
> 5 Micron length (chrysotile)	<u>ND</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Sensitivity Level	<u>0.01</u>	MFL

**Particle Size Distribution ( Chrysotile )**

Particle Length - Microns					
0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Particle Width - Microns					
0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Aspect Ratio L/W					
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>



## ANALYTICAL REPORT

PROJECT NO. TA-C

TA-C

Lot #: F8H200272

TestAmerica - Ontario

TestAmerica - Ontario  
1014 E. Cooley Dr  
Suite A  
Colton, CA 92324

TESTAMERICA LABORATORIES, INC.

A handwritten signature in cursive script, appearing to read "Sherryl Adam", is written over a horizontal line.

Sherryl Adam  
Project Manager

August 29, 2008



**Case Narrative**  
**LOT NUMBER: F8H200272**

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on August 20, 2008. This sample is associated with your TA-C project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

**Observations/Nonconformances**

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

**Gross Alpha/Beta by EPA 900.0**

The Gross Alpha reporting limit was not met due to a reduction of sample size attributed to the sample's high residual mass. The analytical results are reported.

**Affected Samples:**

F8H200272 (1): CRH0590-01

**Total Alpha Radium by GFPC**

Total Alpha Radium sample was filtered due to high solid content in the sample matrix.

**Affected Samples:**

F8H200272 (1): CRH0590-01

**METHODS SUMMARY**

F8H200272

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Total Alpha Radium by GFPC	EPA 903.0 MOD	

**References:**

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY  
PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

**SAMPLE SUMMARY**

F8H200272

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KVGKK	001	CRH0590-01	08/14/08	10:30

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## TestAmerica Ontario

Client Sample ID: CRH0590-01

## Radiochemistry

Lab Sample ID: F8H200272-001  
 Work Order: KVGKK  
 Matrix: WATER

Date Collected: 08/14/08 1030  
 Date Received: 08/20/08 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L	Batch # 8234148		Yld %
Gross Alpha	14.4		7.2	3.0	7.7	08/21/08	08/25/08
Radium 228 by GFPC EPA 904 MOD				pCi/L	Batch # 8233373		Yld % 67
Radium 228	0.64	J	0.38	1.00	0.57	08/21/08	08/27/08
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L	Batch # 8234199		Yld %
Tritium	140	U	170	500	280	08/21/08	08/22/08
Total Alpha Radium EPA 903.0 MOD				pCi/L	Batch # 8233375		Yld % 99
Radium (total)	0.24	J	0.15	1.00	0.19	08/21/08	08/25/08

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

## TestAmerica Ontario

Client Sample ID: CRH0590-01 DUP

## Radiochemistry

Lab Sample ID: F8H200272-001X  
Work Order: KVGKK  
Matrix: WATER

Date Collected: 08/14/08 1030  
Date Received: 08/20/08 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L	Batch # 8234148		Yld %
Gross Alpha	6.5	U	6.9	3.0	11	08/21/08	08/25/08
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L	Batch # 8234199		Yld %
Tritium	130	U	170	500	290	08/21/08	08/22/08

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## METHOD BLANK REPORT

## Radiochemistry

Client Lot ID: F8H200272  
 Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
Total Alpha Radium EPA 903.0 MOD			pCi/L	Batch #	8233375	Yld %	94 F8H200000-375B
Radium (total)	-0.005	U	0.073	1.00	0.16	08/21/08	08/25/08
Radium 228 by GFPC EPA 904 MOD			pCi/L	Batch #	8233373	Yld %	67 F8H200000-373B
Radium 228	0.31	U	0.35	1.00	0.57	08/20/08	08/27/08
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	Batch #	8234199	Yld %	F8H210000-199B
Tritium	240	U	180	500	290	08/21/08	08/22/08
Gross Alpha/Beta EPA 900			pCi/L	Batch #	8234148	Yld %	F8H210000-148B
Gross Alpha	-0.04	U	0.44	3.00	0.92	08/21/08	08/25/08

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only  
 Bold results are greater than the MDC

U Result is less than the sample detection limit.

## Laboratory Control Sample Report

## Radiochemistry

Client Lot ID: F8H200272

Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 $\sigma$ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F8H210000-148C
Gross Alpha	49.4	52.8	6.0	1.3		107	(72 - 138)
	Batch #:	8234148				Analysis Date:	08/25/08
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F8H210000-199C
Tritium	4930	4980	490	280		101	(67 - 111)
	Batch #:	8234199				Analysis Date:	08/22/08

## NOTE(S)

MDC is determined by instrument performance only  
Calculations are performed before rounding to avoid round-off error in calculated results

## MATRIX SPIKE REPORT

## Radiochemistry

Client Lot Id: F8H200272  
 Matrix: WATER

Date Sampled: 08/14/08  
 Date Received: 08/20/08

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD				F8H200272-001
Gross Alpha	260	202	29		14.4	7.2		72	(44 - 150)
	Batch #:	8234148			Analysis Date:	08/25/08			
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L		906.0 MOD				F8H200272-001
Tritium	4930	4910	490		140	170		97	(27 - 150)
	Batch #:	8234199			Analysis Date:	08/22/08			

## NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Laboratory Control Sample/LCS Duplicate Report

## Radiochemistry

Client Lot ID: F8H200272  
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 $\sigma$ +/-)	% Yld	% Rec	QC Control Limits	Lab Sample ID Precision
Total Alpha Radium	EPA 903.0 MOD	pCi/L	903.0 MOD				F8H200000-375C
Radium (total)	11.3	11.0	1.1	95	97	(71 - 125)	
Spk 2	11.3	11.0	1.1	91	98	(71 - 125)	0.4 %RPD
	Batch #:	8233375				Analysis Date: 08/25/08	
Radium 228 by GFPC	EPA 904 MOD	pCi/L	904 MOD				F8H200000-373C
Radium 228	7.69	7.25	0.92	68	94	(61 - 139)	
Spk 2	7.69	8.4	1.0	66	109	(61 - 139)	14 %RPD
	Batch #:	8233373				Analysis Date: 08/27/08	

## NOTE(S)

Calculations are performed before rounding to avoid round-off error in calculated results

## DUPLICATE EVALUATION REPORT

## Radiochemistry

Client Lot ID: F8H200272  
 Matrix: WATER

Date Sampled: 08/14/08  
 Date Received: 08/20/08

Parameter	SAMPLE Result	Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ +/-)	% Yld	QC Sample ID Precision
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F8H200272-001
Gross Alpha	14.4	7.2		6.5 U	6.9		75 %RPD
	Batch #:	8234148	(Sample)	8234148	(Duplicate)		
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F8H200272-001
Tritium	140 U	170		130 U	170		10 %RPD
	Batch #:	8234199	(Sample)	8234199	(Duplicate)		

## NOTE(S)

Data are incomplete without the case narrative.  
 Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

Cur  
4399

SUBCONTRACT ORDER

TestAmerica Ontario

CRH0590

SENDING LABORATORY:

TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa Cunningham  
Client: Layne Christensen

RECEIVING LABORATORY:

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045  
Phone: (314) 298-8566  
Fax: xxx  
Project Location: California  
Receipt Temperature: \_\_\_\_\_ °C Ice: Y / N

Analysis Units Due Expires Interlab Price Surch Comments

Sample ID: CRH0590-01

Water

Sampled: 08/14/08 10:30

Gross Alpha-O	pCi/L	08/27/08	08/14/09 10:30	\$50.00	0%
Radium 226-O	pCi/L	08/27/08	08/14/09 10:30	\$120.00	0%
Radium 228-O	pCi/L	08/27/08	08/14/09 10:30	\$180.00	0%
Tritium-O	pCi/L	08/27/08	08/14/09 10:30	\$70.00	0%

Containers Supplied:

500 mL poly w/ Nitric Acid (AA)	500 mL poly w/ Nitric Acid (AB)	500 mL poly w/ Nitric Acid (AC)	500 mL poly w/ Nitric Acid (AD)	500 mL poly w/ Nitric Acid (AE)
500 mL poly w/ Nitric Acid (AF)	1 Liter Poly w/ Nitric Acid (AK)	500 mL Glass (AO)		

Released By

Date/Time

Received By

Date/Time

LOT# F8H200272

Page 12 of 14

2852 Alton Avenue, Irvine, CA 92606	(949) 261-1022	FAX (949) 261-1228
1014 East Cooley Drive, Suite A, Colton, CA 92324	(909) 370-4667	FAX (909) 370-1046
9484 Chesapeake Dr., Ste. 805, San Diego, CA 92123	(858) 505-9596	FAX (858) 505-9689
9830 South 51st, Suite B-120, Phoenix, AZ 85044	(480) 785-0043	FAX (480) 785-0051
2520 East Sunset, #3, Las Vegas, NV 89120	(702) 798-3620	FAX (702) 798-3621

# DRINKING WATER CHAIN OF CUSTODY FORM

Page 1 of 1[illegible]

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days. All work is subject to Del Mar Analytical's terms and conditions previously agreed to in writing.

Lot #(s): F8H200272

- 4399 -

Client: TA-Ontario  
Quote No: \_\_\_\_\_

COC/RFA No: \_\_\_\_\_  
Initiated By: AB

## Condition Upon Receipt Form

CRH0590

Date: 8-20-08  
Time: 9:30

Shipper Name: FE  
Shinning # (s): \*

## Shipping Information

Multiple Packages Y N

Sample Temperature (s): \*\*

1. **FedEx** PRIORITY C  
2. Emp# 169316 01:32 20AUG08  
3. TRK# 7905 6365 3977  
4. F  
5. 0

1. 6 6. \_\_\_\_\_  
2. \_\_\_\_\_ 7. \_\_\_\_\_  
3. \_\_\_\_\_ 8. \_\_\_\_\_  
4. \_\_\_\_\_ 9. \_\_\_\_\_  
5. \_\_\_\_\_ 10. \_\_\_\_\_

\*Numbered shipping lines correspond to Numbered Sample Temp lines

\*\*Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y <u>N</u>	Are there custody seals present on the cooler?	8.	Y <u>N</u>	Are there custody seals present on bottles?
2.	Y N <u>N/A</u>	Do custody seals on cooler appear to be tampered with?	9.	Y N <u>N/A</u>	Do custody seals on bottles appear to be tampered with?
3.	<u>Y</u> N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N <u>N/A</u>	Was sample received with proper pH? (If not, make note below)
4.	<u>Y</u> N	Sample received with Chain of Custody?	11.	<u>Y</u> N	If N/A- Was pH taken by original TestAmerica lab?
5.	<u>Y</u> N <u>N/A</u>	Does the Chain of Custody match sample ID's on the container(s)?	12.	<u>Y</u> N	Sample received in proper containers?
6.	Y <u>N</u>	Was sample received broken?	13.	Y N <u>N/A</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	<u>Y</u> N	Is sample volume sufficient for analysis?	14.	<u>Y</u> N	Was Internal COC/Workshare received?

<sup>1</sup> For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

## Corrective Action:

- ☐ Client Contact Name: \_\_\_\_\_
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: \_\_\_\_\_

Informed by: \_\_\_\_\_

If released, notify: \_\_\_\_\_

Project Management Review: Sherry A. Allen

Date: 8-21-08

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.



THE LEADER IN ENVIRONMENTAL TESTING

August 28, 2008

**TestAmerica Project Number: G8H200347**

PO/Contract: CRH0590

Melissa Cunningham  
TestAmerica Analytical Testing  
1014 E Cooley Drive,  
Suite A  
Colton, CA 92324

Dear Ms. Cunningham,

This report contains the analytical results for the sample received under chain of custody by TestAmerica on August 20, 2008. This sample is associated with your CRH0590 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4383.

Sincerely,

David R. Alltucker  
Project Manager

## Table of Contents

### TestAmerica West Sacramento Project Number G8H200347

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 1613B, 2,3,7,8-TCDD (DW)

Sample: 1

Sample Data Sheet

Method Blank Report

Laboratory QC Reports

## Case Narrative

### TestAmerica West Sacramento Project Number G8H200347

#### **WATER, 1613B, 2,3,7,8-TCDD (DW)**

Sample: 1

The column performance standard mix CPSM 3136-16 CP0825 analyzed August, 25, 2008 at 15:33 exceeded the 25% valley resolution requirement for 2,3,7,8-TCDD on the DB-5 column analysis. The data was evaluated for impact. As the sample is non-detect for 2,3,7,8-TCDD there is no adverse impact from this deficiency.

There are no other anomalies associated with this project.



## TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0616	Oregon*	CA 200005
Arkansas	04-067-0	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014002
Colorado	NA	Texas	TX 270-2004A
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C087
Hawaii	NA	West Virginia	9930C, 334
Kansas*	E10375	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 9/21/07

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

### Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):

An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary

### TestAmerica West Sacramento Project Number G8H200347

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
KVG6H	1	CRH0590-01	8/14/2008 10:30 AM	8/20/2008 09:15 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## SUBCONTRACT ORDER

TestAmerica Ontario

CRH0590

SENDING LABORATORY:

TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa Cunningham  
Client: Layne Christensen

RECEIVING LABORATORY:

TestAmerica West Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Phone: (916) 373-5600  
Fax: (916) 372-7768  
Project Location: California  
Receipt Temperature: 2 °C

Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
----------	-------	-----	---------	----------------	-------	----------

Sample ID: CRH0590-01      Water      Sampled: 08/14/08 10:30

1613B - 2,3,7,8-TCDD	CA D pg/l	08/27/08	08/14/09 10:30	\$220.00	0%	
----------------------	-----------	----------	----------------	----------	----	--

Containers Supplied:

1 L Amber (AM)	1 L Amber (AN)
----------------	----------------

Released By

Date/Time

Received By

Date/Time

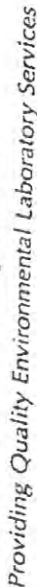
Received By

Date/Time

Received By

Date/Time

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2852 Altan Avenue, Irvine, CA 92606	(949) 261-1022	FAX (949) 261-1228
1014 East Coopley Drive, Suite A, Colton, CA 92324	(909) 370-4567	FAX (909) 370-1046
9484 Chesapeake Dr., Ste. 805, San Diego, CA 92143	(858) 505-9596	FAX (858) 505-9689
9830 South 51st, Suite B-120, Phoenix, AZ 85044	(480) 785-0043	FAX (480) 785-0851
2520 East Sunset, #3, Las Vegas, NV 89120	(702) 798-3620	FAX (702) 798-3621

# DRINKING WATER CHAIN OF CUSTODY FORM

[illegible]

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days. All work is subject to Del Mar Analytical's terms and conditions unless otherwise stated.

CLIENT TAL Ontario PM DA LOG # 53702

LOT# (QUANTIMS ID) G8H200347 QUOTE# 24020 LOCATION W7B

DATE RECEIVED 6/20/08 TIME RECEIVED 0915 Initials CN Date 6/20/08

DELIVERED BY ☒ FEDEX ☐ CA OVERNIGHT ☐ CLIENT  
☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL  
☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS  
☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER  
☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☒ N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S) ☒ TAL ☐ CLIENT ☐ N/A

TEMPERATURE RECORD (IN °C) IR 4 ☐ 5 ☒ OTHER \_\_\_\_\_

COC #(S) NA

TEMPERATURE BLANK Observed: NA Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE

Observed: 01 Average: 1 Corrected Average: 2

COLLECTOR'S NAME: ☐ Verified from COC ☒ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A

LABELED BY: \_\_\_\_\_

LABELS CHECKED BY: \_\_\_\_\_

PEER REVIEW ☒ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☒ N/A

VOA-ENCORES ☒ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A

☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C - 6 °C)\* ☒ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



## Bottle Lot Inventory

Lot

ID:

G8H200347

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	2																			
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

G8H200347

TestAmerica West Sacramento (916) 373 - 5600

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# WATER, 1613B, 2,3,7,8-TCDD DW

TestAmerica Ontario

Client Sample ID: CRH0590-01

Trace Level Organic Compounds

Lot-Sample #...: G8H200347-001    Work Order #...: KVG6H1AA    Matrix.....: WATER  
 Date Sampled...: 08/14/08    Date Received...: 08/20/08  
 Prep Date.....: 08/21/08    Analysis Date...: 08/25/08  
 Prep Batch #...: 8235233  
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	61	(25 - 141)



## QC DATA ASSOCIATION SUMMARY

G8H200347

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B-Tetra		8235233	

# METHOD BLANK REPORT

## Trace Level Organic Compounds

Client Lot #...: G8H200347      Work Order #...: KVLNK1AA      Matrix.....: WATER  
 MB Lot-Sample #: G8H220000-233  
 Prep Date.....: 08/21/08  
 Analysis Date...: 08/25/08      Prep Batch #...: 8235233  
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra
INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS		
13C-2,3,7,8-TCDD	61	(25 - 141)		

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## Trace Level Organic Compounds

Client Lot #...: G8H200347      Work Order #...: KVLNK1AC      Matrix.....: WATER  
 LCS Lot-Sample#: G8H220000-233  
 Prep Date.....: 08/21/08      Analysis Date...: 08/25/08  
 Prep Batch #...: 8235233  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	89	(73 - 146)	EPA-5 1613B-Tetras

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	65	(25 - 141)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## Trace Level Organic Compounds

Client Lot #...: G8H200347      Work Order #...: KVLNK1AC      Matrix.....: WATER  
 LCS Lot-Sample#: G8H220000-233  
 Prep Date.....: 08/21/08      Analysis Date...: 08/25/08  
 Prep Batch #...: 8235233  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
2, 3, 7, 8-TCDD	200	177	pg/L	89	EPA-5 1613B-T

<u>INTERNAL STANDARD</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C-2, 3, 7, 8-TCDD	65	(25 - 141)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters







## LABORATORY REPORT

Prepared For: Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project: Title 22 Testing  
Title 22 Testing

Sampled: 08/25/08  
Received: 08/25/08  
Issued: 10/07/08 07:42

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

#### LABORATORY ID

CRH0933-01

#### CLIENT ID

Ryken-Well-S-2

#### MATRIX

Water

Reviewed By:



TestAmerica Ontario

Melissa Cunningham  
Project Manager

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Bromodichloromethane	EPA 524.2	C8I0433	1.0	ND	1	9/4/2008	9/5/2008	
Bromoform	EPA 524.2	C8I0433	1.0	ND	1	9/4/2008	9/5/2008	
Carbon tetrachloride	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Chlorobenzene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Chloroform	EPA 524.2	C8I0433	1.0	ND	1	9/4/2008	9/5/2008	
Dibromochloromethane	EPA 524.2	C8I0433	1.0	ND	1	9/4/2008	9/5/2008	
1,2-Dichlorobenzene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,4-Dichlorobenzene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,1-Dichloroethane	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,2-Dichloroethane	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,1-Dichloroethene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
cis-1,2-Dichloroethene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
trans-1,2-Dichloroethene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,2-Dichloropropane	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
cis-1,3-Dichloropropene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
trans-1,3-Dichloropropene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,3-Dichloropropene, Total	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Ethylbenzene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Methylene chloride	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Styrene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,1,2,2-Tetrachloroethane	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Tetrachloroethene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Toluene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,2,4-Trichlorobenzene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,1,1-Trichloroethane	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
1,1,2-Trichloroethane	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Trichloroethene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Trichlorofluoromethane (Freon 11)	EPA 524.2	C8I0433	5.0	ND	1	9/4/2008	9/5/2008	
Trichlorotrifluoroethane (Freon 113)	EPA 524.2	C8I0433	10	ND	1	9/4/2008	9/5/2008	
Vinyl chloride	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
m,p-Xylenes	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
o-Xylene	EPA 524.2	C8I0433	0.50	ND	1	9/4/2008	9/5/2008	
Xylenes, Total	EPA 524.2	C8I0433	1.0	ND	1	9/4/2008	9/5/2008	
Methyl-tert-butyl Ether (MTBE)	EPA 524.2	C8I0433	3.0	ND	1	9/4/2008	9/5/2008	
Trihalomethanes, Total	EPA 524.2	C8I0433	1.0	<4.0	1	9/4/2008	9/5/2008	
Surrogate: 4-Bromofluorobenzene (70-130%)				77 %				
Surrogate: 1,2-Dichlorobenzene-d4 (70-130%)				94 %				

### TestAmerica Ontario

Melissa Cunningham  
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

CRH0933 <Page 2 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## CDHS SRL 524 MODIFIED METHOD FOR 1,2,3-TRICHLOROPROPANE PT/GCMS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ng/L								
1,2,3-Trichloropropane (123-TCP)	SRL 524M-123TCP	C8H2604	5.0	ND	1	8/26/2008	8/26/2008	

TestAmerica Ontario

Melissa Cunningham  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,  
except in full, without written permission from TestAmerica.*

CRH0933 <Page 3 of 57>



Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01RE2 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
1,2-Dibromoethane (EDB)	EPA 504.1	C810830	0.020	ND	0.994	9/8/2008	9/8/2008	
1,2-Dibromo-3-chloropropane	EPA 504.1	C810830	0.010	ND	0.994	9/8/2008	9/8/2008	
Surrogate: 4-Bromofluorobenzene (65-154%)				11400 %				Z2

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Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01RE1 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Atrazine	EPA 525.2	C8I0210	0.50	ND	1	9/2/2008	9/3/2008	
Benzo(a)pyrene	EPA 525.2	C8I0210	0.10	ND	1	9/2/2008	9/3/2008	
Di(2-ethylhexyl)adipate	EPA 525.2	C8I0210	5.0	ND	1	9/2/2008	9/3/2008	
Di(2-ethylhexyl)phthalate	EPA 525.2	C8I0210	3.0	ND	1	9/2/2008	9/3/2008	
Hexachlorobenzene	EPA 525.2	C8I0210	0.50	ND	1	9/2/2008	9/3/2008	
Hexachlorocyclopentadiene	EPA 525.2	C8I0210	1.0	ND	1	9/2/2008	9/3/2008	L
Molinate	EPA 525.2	C8I0210	2.0	ND	1	9/2/2008	9/3/2008	
Simazine	EPA 525.2	C8I0210	1.0	ND	1	9/2/2008	9/3/2008	
Thiobencarb	EPA 525.2	C8I0210	1.0	ND	1	9/2/2008	9/3/2008	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)				97 %				
Surrogate: Triphenylphosphate (70-130%)				114 %				
Surrogate: Perylene-d12 (70-130%)				99 %				

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Sampled: 08/25/08  
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## ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Alachlor	EPA 505	C8H2720	1.0	ND	0.955	8/27/2008	8/28/2008	C, L
Endrin	EPA 505	C8H2720	0.10	ND	0.955	8/27/2008	8/28/2008	C, L
Heptachlor	EPA 505	C8H2720	0.010	ND	0.955	8/27/2008	8/28/2008	C, L
Heptachlor epoxide	EPA 505	C8H2720	0.010	ND	0.955	8/27/2008	8/28/2008	C, L
Lindane (gamma-BHC)	EPA 505	C8H2720	0.20	ND	0.955	8/27/2008	8/28/2008	C, L
Methoxychlor	EPA 505	C8H2720	10	ND	0.955	8/27/2008	8/28/2008	C, L
Chlordane	EPA 505	C8H2720	0.10	ND	0.955	8/27/2008	8/28/2008	
Toxaphene	EPA 505	C8H2720	1.0	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1016	EPA 505	C8H2720	0.26	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1221	EPA 505	C8H2720	0.19	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1232	EPA 505	C8H2720	0.23	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1242	EPA 505	C8H2720	0.26	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1248	EPA 505	C8H2720	0.30	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1254	EPA 505	C8H2720	0.33	ND	0.955	8/27/2008	8/28/2008	
Aroclor 1260	EPA 505	C8H2720	0.36	ND	0.955	8/27/2008	8/28/2008	
PCBs as Decachlorobiphenyl (DCB)	EPA 505	C8H2720	0.50	ND	0.955	8/27/2008	8/28/2008	

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## CHLORINATED ACIDS (EPA 515.4)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Bentazon	EPA 515.4	C8H2801	2.0	ND	1	8/28/2008	8/29/2008	C, L
2,4-D	EPA 515.4	C8H2801	10	ND	1	8/28/2008	8/29/2008	C, L
Dalapon	EPA 515.4	C8H2801	10	ND	1	8/28/2008	8/29/2008	
Dacthal acid metabolites	EPA 515.4	C8H2801	1.0	ND	1	8/28/2008	8/29/2008	
Dicamba	EPA 515.4	C8H2801	1.5	ND	1	8/28/2008	8/29/2008	
Dinoseb	EPA 515.4	C8H2801	2.0	ND	1	8/28/2008	8/29/2008	
Pentachlorophenol	EPA 515.4	C8H2801	0.20	ND	1	8/28/2008	8/29/2008	
Picloram	EPA 515.4	C8H2801	1.0	ND	1	8/28/2008	8/29/2008	C, L
2,4,5-TP (Silvex)	EPA 515.4	C8H2801	1.0	ND	1	8/28/2008	8/29/2008	
Surrogate: 2,4-Dichlorophenylacetic acid (70-130%)				111 %				

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## CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Aldicarb Sulfoxide	EPA 531.1	C8H2618	3.0	ND	1	8/26/2008	8/27/2008	
Aldicarb Sulfone	EPA 531.1	C8H2618	2.0	ND	1	8/26/2008	8/27/2008	
Oxamyl	EPA 531.1	C8H2618	20	ND	1	8/26/2008	8/27/2008	
Methomyl	EPA 531.1	C8H2618	2.0	ND	1	8/26/2008	8/27/2008	
3-Hydroxycarbofuran	EPA 531.1	C8H2618	3.0	ND	1	8/26/2008	8/27/2008	
Aldicarb	EPA 531.1	C8H2618	3.0	ND	1	8/26/2008	8/27/2008	
Carbofuran	EPA 531.1	C8H2618	5.0	ND	1	8/26/2008	8/27/2008	
Carbaryl	EPA 531.1	C8H2618	5.0	ND	1	8/26/2008	8/27/2008	

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## GLYPHOSATE (EPA 547)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Glyphosate	EPA 547	C8H2904	25	ND	1	8/30/2008	8/30/2008	

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## DIQUAT/PARAQUAT (EPA 549.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Diquat	EPA 549.2	C8H2710	4.0	ND	1	8/27/2008	8/27/2008	
Paraquat	EPA 549.2	C8H2710	20	ND	1	8/27/2008	8/27/2008	

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## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								pH
Reporting Units: Color Units								
Color	SM2120B	C8H2619	1	ND	1	8/26/2008	8/26/2008	
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: NTU								
Turbidity	EPA 180.1	C8H2626	0.10	ND	1	8/26/2008	8/26/2008	
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: T.O.N.								
Odor	SM2150B	C8H2616	1.0	ND	1	8/26/2008	8/26/2008	

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## FIELD TESTS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: °C								
Temperature	Field Test	C8H2903	1.0	24	1	8/25/2008	8/29/2008	FT
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pH Units								
pH	Field Test	C8H2903	NA	6.4	1	8/25/2008	8/29/2008	FT

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## METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: mg/l								
Hardness (as CaCO <sub>3</sub> )	SM2340B	[CALC]	0.33	310	1	8/29/2008	9/4/2008	
Calcium	EPA 200.7	8H29097	0.10	100	1	8/29/2008	9/3/2008	B-1, MHA
Iron	EPA 200.7	8H29097	0.040	ND	1	8/29/2008	9/3/2008	
Magnesium	EPA 200.7	8H29097	0.020	15	1	8/29/2008	9/4/2008	MHA
Potassium	EPA 200.7	8H29097	0.50	8.2	1	8/29/2008	9/3/2008	
Sodium	EPA 200.7	8H29097	0.50	370	1	8/29/2008	9/3/2008	MHA
Mercury	EPA 245.1	8H26070	0.00020	ND	1	8/26/2008	8/26/2008	
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pCi/L								
Uranium pCi/L (CA)	EPA 200.8	8H26081	1.0	5.7	1	8/26/2008	8/27/2008	
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: ug/l								
Aluminum	EPA 200.8	8H26081	10	ND	1	8/26/2008	8/27/2008	
Antimony	EPA 200.8	8H26081	2.0	ND	1	8/26/2008	8/27/2008	
Arsenic	EPA 200.8	8H26081	1.0	9.7	1	8/26/2008	8/27/2008	
Barium	EPA 200.8	8H26081	1.0	34	1	8/26/2008	8/27/2008	
Beryllium	EPA 200.8	8H26081	0.50	ND	1	8/26/2008	8/27/2008	
Cadmium	EPA 200.8	8H26081	1.0	ND	1	8/26/2008	8/27/2008	
Chromium	EPA 200.8	8H26081	2.0	4.8	1	8/26/2008	8/27/2008	
Copper	EPA 200.8	8H26081	2.0	2.2	1	8/26/2008	8/27/2008	
Lead	EPA 200.8	8H26081	1.0	ND	1	8/26/2008	8/27/2008	
Manganese	EPA 200.8	8H26081	1.0	ND	1	8/26/2008	8/27/2008	
Nickel	EPA 200.8	8H26081	2.0	ND	1	8/26/2008	8/27/2008	
Selenium	EPA 200.8	8H26081	2.0	5.0	1	8/26/2008	8/27/2008	
Silver	EPA 200.8	8H26081	1.0	ND	1	8/26/2008	8/27/2008	
Thallium	EPA 200.8	8H26081	1.0	ND	1	8/26/2008	8/27/2008	C
Zinc	EPA 200.8	8H26081	20	ND	1	8/26/2008	8/27/2008	

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## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 218.6	8H25092	0.0010	0.0047	1	8/25/2008	8/25/2008	
Alkalinity as CaCO <sub>3</sub>	SM2320B	8H26076	2.0	120	1	8/26/2008	8/26/2008	
Alkalinity as CaCO <sub>3</sub>	SM2320B	8H26076	2.0	120	1	8/26/2008	8/26/2008	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	SM2320B	8H26076	2.0	120	1	8/26/2008	8/26/2008	
Carbonate Alkalinity as CaCO <sub>3</sub>	SM2320B	8H26076	2.0	ND	1	8/26/2008	8/26/2008	
Hydroxide Alkalinity as CaCO <sub>3</sub>	SM2320B	8H26076	2.0	ND	1	8/26/2008	8/26/2008	
Chloride	EPA 300.0	8H25106	10	580	20	8/25/2008	8/26/2008	
Total Cyanide	SM4500-CN-C.E	8H27101	0.025	ND	1	8/27/2008	8/27/2008	
Fluoride	SM 4500-F-C	8H27039	0.10	0.56	1	8/27/2008	8/27/2008	
Nitrate-N	EPA 300.0	8H25106	0.15	1.6	1	8/25/2008	8/26/2008	
Nitrate-NO <sub>3</sub>	EPA 300.0	8H25106	0.50	7.0	1	8/25/2008	8/26/2008	
Nitrite-N	EPA 300.0	8H25106	3.0	ND	20	8/25/2008	8/26/2008	RL1
Nitrate/Nitrite-N	EPA 300.0	8H25106	0.26	1.6	1	8/25/2008	8/26/2008	
Sulfate	EPA 300.0	8H25106	10	260	20	8/25/2008	8/26/2008	
Surfactants (MBAS)	SM5540-C	8H26127	0.10	ND	1	8/26/2008	8/27/2008	
Total Dissolved Solids	SM2540C	8H27049	10	1500	1	8/27/2008	8/27/2008	
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	8H26061	0.100	7.75	1	8/26/2008	8/26/2008	HFT
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: umhos/cm @ 25C								
Specific Conductance	SM2510B	8H27054	1.0	2400	1	8/27/2008	8/27/2008	

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## AGGRESSIVE INDEX

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: SI Units								
Aggressive Index	Calc	8104124	0.010	12	1	9/4/2008	9/4/2008	

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## EPA-5 1613B-Tetras

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pg/L								
2,3,7,8-TCDD	EPA-5 1613B-Tetras	8242295	5.0	ND	1	8/29/2008	9/3/2008	
Surrogate: 13C-2,3,7,8-TCDD (25-141%)				50 %				

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## EPA 900.0 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pCi/L								
Gross Alpha	EPA 900.0 MOD	8246173	3	2.1	1	9/2/2008	9/7/2008	U

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## EPA 903.0 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pCi/L								
Radium (total)	EPA 903.0 MOD	8242349	1	0.19	1	8/29/2008	9/10/2008	U

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## EPA 904 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pCi/L								
Radium 228	EPA 904 MOD	8242348	1	0.14	1	8/29/2008	9/10/2008	U

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## EPA 906.0 MOD

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: pCi/L								
Tritium	EPA 906.0 MOD	8246079	500	110	1	9/2/2008	9/3/2008	U

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## EPA 100.2

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRH0933-01 (Ryken-Well-S-2 - Water)								
Reporting Units: MFL								
Asbestos by TEM	EPA 100.2	NA	0.2	ND	1	8/26/2008	9/2/2008	

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Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Ryken-Well-S-2 (CRH0933-01) - Water					
EPA 150.1	0	08/25/2008 08:30	08/25/2008 11:46	08/26/2008 09:40	08/26/2008 09:40
EPA 180.1	2	08/25/2008 08:30	08/25/2008 11:46	08/26/2008 13:15	08/26/2008 13:15
EPA 218.6	1	08/25/2008 08:30	08/25/2008 11:46	08/25/2008 22:12	08/25/2008 22:17
EPA 300.0	2	08/25/2008 08:30	08/25/2008 11:46	08/25/2008 22:15	08/26/2008 05:48
Nitrite-N				08/25/2008 22:15	08/26/2008 06:01
SM2120B	2	08/25/2008 08:30	08/25/2008 11:46	08/26/2008 10:35	08/26/2008 10:35
SM2150B	1	08/25/2008 08:30	08/25/2008 11:46	08/26/2008 09:50	08/26/2008 09:50
SM5540-C	2	08/25/2008 08:30	08/25/2008 11:46	08/26/2008 19:02	08/27/2008 00:47

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Layne Christensen  
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Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
<b>Batch: C810433 Extracted: 09/04/08</b>									
<b>Blank Analyzed: 09/05/2008 (C810433-BLK1)</b>									
Benzene	ND	0.50	ug/l						
Bromodichloromethane	ND	1.0	ug/l						
Bromoform	ND	1.0	ug/l						
Carbon tetrachloride	ND	0.50	ug/l						
Chlorobenzene	ND	0.50	ug/l						
Chloroform	ND	1.0	ug/l						
Dibromochloromethane	ND	1.0	ug/l						
1,2-Dichlorobenzene	ND	0.50	ug/l						
1,4-Dichlorobenzene	ND	0.50	ug/l						
1,1-Dichloroethane	ND	0.50	ug/l						
1,2-Dichloroethane	ND	0.50	ug/l						
1,1-Dichloroethene	ND	0.50	ug/l						
cis-1,2-Dichloroethene	ND	0.50	ug/l						
trans-1,2-Dichloroethene	ND	0.50	ug/l						
1,2-Dichloropropane	ND	0.50	ug/l						
cis-1,3-Dichloropropene	ND	0.50	ug/l						
trans-1,3-Dichloropropene	ND	0.50	ug/l						
1,3-Dichloropropene, Total	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Methylene chloride	ND	0.50	ug/l						
Styrene	ND	0.50	ug/l						
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l						
Tetrachloroethene	ND	0.50	ug/l						
Toluene	ND	0.50	ug/l						
1,2,4-Trichlorobenzene	ND	0.50	ug/l						
1,1,1-Trichloroethane	ND	0.50	ug/l						
1,1,2-Trichloroethane	ND	0.50	ug/l						
Trichloroethene	ND	0.50	ug/l						
Trichlorofluoromethane (Freon 11)	ND	5.0	ug/l						
Trichlorotrifluoroethane (Freon 113)	ND	10	ug/l						
Vinyl chloride	ND	0.50	ug/l						
m,p-Xylenes	ND	0.50	ug/l						
o-Xylene	ND	0.50	ug/l						
Xylenes, Total	ND	1.0	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	3.0	ug/l						
Trihalomethanes, Total	<1.0	1.0	ug/l						

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Layne Christensen  
11001 Etiwanda Avenue  
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Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810433 Extracted: 09/04/08</b>										
<b>Blank Analyzed: 09/05/2008 (C810433-BLK1)</b>										
Surrogate: 4-Bromofluorobenzene	3.98		ug/l	5.00		80	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.24		ug/l	5.00		85	70-130			
<b>LCS Analyzed: 09/04/2008 (C810433-BS1)</b>										
Benzene	5.79	0.50	ug/l	5.00		116	70-130			
Bromodichloromethane	4.96	1.0	ug/l	5.00		99	70-130			
Bromoform	4.54	1.0	ug/l	5.00		91	70-130			
Carbon tetrachloride	5.98	0.50	ug/l	5.00		120	70-130			
Chlorobenzene	5.71	0.50	ug/l	5.00		114	70-130			
Chloroform	5.17	1.0	ug/l	5.00		103	70-130			
Dibromochloromethane	4.81	1.0	ug/l	5.00		96	70-130			
1,2-Dichlorobenzene	5.37	0.50	ug/l	5.00		107	70-130			
1,4-Dichlorobenzene	5.59	0.50	ug/l	5.00		112	70-130			
1,1-Dichloroethane	5.17	0.50	ug/l	5.00		103	70-130			
1,2-Dichloroethane	4.83	0.50	ug/l	5.00		97	70-130			
1,1-Dichloroethene	6.31	0.50	ug/l	5.00		126	70-130			
cis-1,2-Dichloroethene	5.74	0.50	ug/l	5.00		115	70-130			
trans-1,2-Dichloroethene	6.38	0.50	ug/l	5.00		128	70-130			
1,2-Dichloropropane	5.31	0.50	ug/l	5.00		106	70-130			
cis-1,3-Dichloropropene	5.04	0.50	ug/l	5.00		101	70-130			
trans-1,3-Dichloropropene	4.78	0.50	ug/l	5.00		96	70-130			
1,3-Dichloropropene, Total	9.82	0.50	ug/l	10.0		98	70-130			
Ethylbenzene	5.28	0.50	ug/l	5.00		106	70-130			
Methylene chloride	5.03	0.50	ug/l	5.00		101	70-130			
Styrene	4.97	0.50	ug/l	5.00		99	70-130			
1,1,2,2-Tetrachloroethane	5.18	0.50	ug/l	5.00		104	70-130			
Tetrachloroethene	4.61	0.50	ug/l	5.00		92	70-130			
Toluene	5.87	0.50	ug/l	5.00		117	70-130			
1,2,4-Trichlorobenzene	6.18	0.50	ug/l	5.00		124	70-130			
1,1,1-Trichloroethane	6.03	0.50	ug/l	5.00		121	70-130			
1,1,2-Trichloroethane	4.96	0.50	ug/l	5.00		99	70-130			
Trichloroethene	5.66	0.50	ug/l	5.00		113	70-130			
Trichlorofluoromethane (Freon 11)	6.22	5.0	ug/l	5.00		124	70-130			
Trichlorotrifluoroethane (Freon 113)	6.18	10	ug/l	5.00		124	70-130			
Vinyl chloride	6.48	0.50	ug/l	5.00		130	70-130			
m,p-Xylenes	10.8	0.50	ug/l	10.0		108	70-130			

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Project Manager

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Layne Christensen  
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Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810433 Extracted: 09/04/08</b>										
<b>LCS Analyzed: 09/04/2008 (C810433-BS1)</b>										
o-Xylene	5.71	0.50	ug/l	5.00		114	70-130			
Xylenes, Total	16.6	1.0	ug/l	15.0		110	70-130			
Methyl-tert-butyl Ether (MTBE)	8.85	3.0	ug/l	10.0		88	70-130			
Trihalomethanes, Total	19.5	1.0	ug/l	20.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	4.64		ug/l	5.00		93	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.68		ug/l	5.00		94	70-130			
<b>Matrix Spike Analyzed: 09/05/2008 (C810433-MS1)</b>										
					<b>Source: CRH1142-01RE1</b>					
Benzene	4.41	0.50	ug/l	5.00	ND	88	70-125			
Bromodichloromethane	27.0	1.0	ug/l	5.00	25.6	27	40-150			MHA
Bromoform	5.41	1.0	ug/l	5.00	2.42	60	45-120			
Carbon tetrachloride	4.81	0.50	ug/l	5.00	0.220	92	60-140			
Chlorobenzene	4.24	0.50	ug/l	5.00	ND	85	60-125			
Chloroform	29.9	1.0	ug/l	5.00	31.4	-31	55-130			MHA
Dibromochloromethane	21.1	1.0	ug/l	5.00	17.6	69	50-130			
1,2-Dichlorobenzene	3.93	0.50	ug/l	5.00	ND	79	60-130			
1,4-Dichlorobenzene	4.14	0.50	ug/l	5.00	ND	83	60-135			
1,1-Dichloroethane	4.04	0.50	ug/l	5.00	ND	81	65-125			
1,2-Dichloroethane	3.41	0.50	ug/l	5.00	ND	68	50-140			
1,1-Dichloroethene	4.74	0.50	ug/l	5.00	ND	95	65-125			
cis-1,2-Dichloroethene	3.75	0.50	ug/l	5.00	ND	75	70-115			
trans-1,2-Dichloroethene	4.76	0.50	ug/l	5.00	ND	95	70-115			
1,2-Dichloropropane	3.93	0.50	ug/l	5.00	ND	79	65-125			
cis-1,3-Dichloropropene	3.25	0.50	ug/l	5.00	ND	65	45-130			
trans-1,3-Dichloropropene	3.36	0.50	ug/l	5.00	ND	67	55-110			
1,3-Dichloropropene, Total	6.61	0.50	ug/l	10.0	ND	66	30-140			
Ethylbenzene	4.09	0.50	ug/l	5.00	ND	82	60-120			
Methylene chloride	3.69	0.50	ug/l	5.00	ND	74	60-110			
Styrene	3.73	0.50	ug/l	5.00	ND	75	25-140			
1,1,2,2-Tetrachloroethane	3.51	0.50	ug/l	5.00	ND	70	50-140			
Tetrachloroethene	4.22	0.50	ug/l	5.00	ND	84	55-135			
Toluene	4.47	0.50	ug/l	5.00	ND	89	65-125			
1,2,4-Trichlorobenzene	4.50	0.50	ug/l	5.00	ND	90	45-140			
1,1,1-Trichloroethane	4.74	0.50	ug/l	5.00	ND	95	60-135			
1,1,2-Trichloroethane	3.42	0.50	ug/l	5.00	ND	68	60-130			
Trichloroethene	4.31	0.50	ug/l	5.00	ND	86	75-115			

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Project Manager

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Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810433 Extracted: 09/04/08</b>										
<b>Matrix Spike Analyzed: 09/05/2008 (C810433-MS1)</b>					<b>Source: CRH1142-01RE1</b>					
Trichlorofluoromethane (Freon 11)	4.97	5.0	ug/l	5.00	ND	99	65-140			
Trichlorotrifluoroethane (Freon 113)	5.54	10	ug/l	5.00	ND	111	60-135			
Vinyl chloride	4.80	0.50	ug/l	5.00	ND	96	60-130			
m,p-Xylenes	8.44	0.50	ug/l	10.0	ND	84	60-125			
o-Xylene	4.44	0.50	ug/l	5.00	ND	89	75-115			
Xylenes, Total	12.9	1.0	ug/l	15.0	ND	86	60-135			
Methyl-tert-butyl Ether (MTBE)	5.88	3.0	ug/l	10.0	0.150	57	50-130			
Trihalomethanes, Total	83.4	1.0	ug/l	20.0	77.1	31	55-125			MHA
Surrogate: 4-Bromofluorobenzene	4.23		ug/l	5.00		85	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.19		ug/l	5.00		84	70-130			
<b>Matrix Spike Dup Analyzed: 09/05/2008 (C810433-MSD1)</b>					<b>Source: CRH1142-01RE1</b>					
Benzene	5.02	0.50	ug/l	5.00	ND	100	70-125	13	25	
Bromodichloromethane	27.9	1.0	ug/l	5.00	25.6	45	40-150	3	20	
Bromoform	6.11	1.0	ug/l	5.00	2.42	74	45-120	12	20	
Carbon tetrachloride	5.45	0.50	ug/l	5.00	0.220	105	60-140	12	30	
Chlorobenzene	4.94	0.50	ug/l	5.00	ND	99	60-125	15	20	
Chloroform	30.3	1.0	ug/l	5.00	31.4	-23	55-130	1	15	MHA
Dibromochloromethane	22.3	1.0	ug/l	5.00	17.6	94	50-130	6	15	
1,2-Dichlorobenzene	4.42	0.50	ug/l	5.00	ND	88	60-130	12	20	
1,4-Dichlorobenzene	4.71	0.50	ug/l	5.00	ND	94	60-135	13	20	
1,1-Dichloroethane	4.60	0.50	ug/l	5.00	ND	92	65-125	13	20	
1,2-Dichloroethane	3.96	0.50	ug/l	5.00	ND	79	50-140	15	30	
1,1-Dichloroethene	5.47	0.50	ug/l	5.00	ND	109	65-125	14	20	
cis-1,2-Dichloroethene	4.66	0.50	ug/l	5.00	ND	93	70-115	22	15	R
trans-1,2-Dichloroethene	5.38	0.50	ug/l	5.00	ND	108	70-115	12	20	
1,2-Dichloropropane	4.59	0.50	ug/l	5.00	ND	92	65-125	15	20	
cis-1,2-Dichloropropene	3.74	0.50	ug/l	5.00	ND	75	45-130	14	15	
trans-1,3-Dichloropropene	3.85	0.50	ug/l	5.00	ND	77	55-110	14	20	
1,3-Dichloropropene, Total	7.59	0.50	ug/l	10.0	ND	76	30-140	14	20	
Ethylbenzene	4.66	0.50	ug/l	5.00	ND	93	60-120	13	20	
Methylene chloride	4.18	0.50	ug/l	5.00	ND	84	60-110	12	15	
Styrene	4.30	0.50	ug/l	5.00	ND	86	25-140	14	25	
1,1,2,2-Tetrachloroethane	4.16	0.50	ug/l	5.00	ND	83	50-140	17	30	
Tetrachloroethene	4.97	0.50	ug/l	5.00	ND	99	55-135	16	20	
Toluene	5.13	0.50	ug/l	5.00	ND	103	65-125	14	20	

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Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810433 Extracted: 09/04/08</b>										
<b>Matrix Spike Dup Analyzed: 09/05/2008 (C810433-MSD1)</b>					<b>Source: CRH1142-01RE1</b>					
1,2,4-Trichlorobenzene	4.94	0.50	ug/l	5.00	ND	99	45-140	9	20	
1,1,1-Trichloroethane	5.36	0.50	ug/l	5.00	ND	107	60-135	12	35	
1,1,2-Trichloroethane	4.13	0.50	ug/l	5.00	ND	83	60-130	19	25	
Trichloroethene	4.91	0.50	ug/l	5.00	ND	98	75-115	13	20	
Trichlorofluoromethane (Freon 11)	5.59	5.0	ug/l	5.00	ND	112	65-140	12	25	
Trichlorotrifluoroethane (Freon 113)	6.25	10	ug/l	5.00	ND	125	60-135	12	25	
Vinyl chloride	5.42	0.50	ug/l	5.00	ND	108	60-130	12	20	
m,p-Xylenes	9.49	0.50	ug/l	10.0	ND	95	60-125	12	20	
o-Xylene	5.05	0.50	ug/l	5.00	ND	101	75-115	13	20	
Xylenes, Total	14.5	1.0	ug/l	15.0	ND	97	60-135	12	20	
Methyl-tert-butyl Ether (MTBE)	7.12	3.0	ug/l	10.0	0.150	70	50-130	19	25	
Trihalomethanes, Total	86.6	1.0	ug/l	20.0	77.1	47	55-125	4	15	MHA
Surrogate: 4-Bromofluorobenzene	4.23		ug/l	5.00		85	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	4.13		ug/l	5.00		83	70-130			

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Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### CDHS SRL 524 MODIFIED METHOD FOR 1,2,3-TRICHLOROPROPANE PT/GCMS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2604 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/26/2008 (C8H2604-BLK1)</b>										
1,2,3-Trichloropropane (123-TCP)	ND	5.0	ng/L							
<b>LCS Analyzed: 08/26/2008 (C8H2604-BS1)</b>										
1,2,3-Trichloropropane (123-TCP)	6.00	5.0	ng/L	5.00		120	80-120			
<b>Matrix Spike Analyzed: 08/26/2008 (C8H2604-MS1)</b>										
1,2,3-Trichloropropane (123-TCP)	47.9	5.0	ng/L	50.0	ND	96	45-140			
<b>Matrix Spike Dup Analyzed: 08/26/2008 (C8H2604-MSD1)</b>										
1,2,3-Trichloropropane (123-TCP)	49.6	5.0	ng/L	50.0	ND	99	45-140	4	27	

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Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810830 Extracted: 09/08/08</b>										
<b>Blank Analyzed: 09/08/2008 (C810830-BLK1)</b>										
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
Surrogate: 4-Bromofluorobenzene	9.01		ug/l	5.00		180	65-154			Z2
<b>LCS Analyzed: 09/08/2008 (C810830-BS1)</b>										
1,2-Dibromoethane (EDB)	0.198	0.020	ug/l	0.250		79	70-130			
1,2-Dibromo-3-chloropropane	0.200	0.010	ug/l	0.250		80	70-130			
Surrogate: 4-Bromofluorobenzene	4.48		ug/l	5.00		89	65-154			
<b>LCS Dup Analyzed: 09/09/2008 (C810830-BSD1)</b>										
1,2-Dibromoethane (EDB)	0.121	0.020	ug/l	0.0993		121	70-130	42	30	R-7
1,2-Dibromo-3-chloropropane	0.111	0.010	ug/l	0.0993		111	70-130	33	21	R-7
Surrogate: 4-Bromofluorobenzene	10.4		ug/l	4.97		209	65-154			Z1
<b>Matrix Spike Analyzed: 09/08/2008 (C810830-MS1)</b>										
					<b>Source: CRI0171-01</b>					
1,2-Dibromoethane (EDB)	0.206	0.020	ug/l	0.247	ND	83	65-135			
1,2-Dibromo-3-chloropropane	0.204	0.010	ug/l	0.247	ND	83	65-135			
Surrogate: 4-Bromofluorobenzene	4.15		ug/l	4.94		84	65-154			

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Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810210 Extracted: 09/02/08</b>										
<b>Blank Analyzed: 09/03/2008 (C810210-BLK1)</b>										
Atrazine	ND	0.50	ug/l							
Benzo(a)pyrene	ND	0.10	ug/l							
Di(2-ethylhexyl)adipate	ND	5.0	ug/l							
Di(2-ethylhexyl)phthalate	ND	3.0	ug/l							
Hexachlorobenzene	ND	0.50	ug/l							
Hexachlorocyclopentadiene	ND	1.0	ug/l							
Molinate	ND	2.0	ug/l							
Simazine	ND	1.0	ug/l							
Thiobencarb	ND	1.0	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.64		ug/l	5.00		93	70-130			
Surrogate: Triphenylphosphate	5.30		ug/l	5.00		106	70-130			
Surrogate: Perylene-d12	4.89		ug/l	5.00		98	70-130			
<b>LCS Analyzed: 09/03/2008 (C810210-BS1)</b>										
Atrazine	4.89	0.50	ug/l	5.00		98	70-130			
Benzo(a)pyrene	5.90	0.10	ug/l	5.00		118	70-130			
Di(2-ethylhexyl)adipate	10.5	5.0	ug/l	10.0		105	70-130			
Di(2-ethylhexyl)phthalate	11.0	3.0	ug/l	10.0		110	70-130			
Hexachlorobenzene	5.43	0.50	ug/l	5.00		109	70-130			
Hexachlorocyclopentadiene	12.9	1.0	ug/l	10.0		129	70-130			
Molinate	5.02	2.0	ug/l	5.00		100	70-130			
Simazine	4.20	1.0	ug/l	5.00		84	70-130			
Thiobencarb	5.02	1.0	ug/l	5.00		100	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.53		ug/l	5.00		91	70-130			
Surrogate: Triphenylphosphate	5.11		ug/l	5.00		102	70-130			
Surrogate: Perylene-d12	5.21		ug/l	5.00		104	70-130			
<b>LCS Dup Analyzed: 09/03/2008 (C810210-BSD1)</b>										
Atrazine	5.18	0.50	ug/l	5.00		104	70-130	6	10	
Benzo(a)pyrene	6.28	0.10	ug/l	5.00		126	70-130	6	10	
Di(2-ethylhexyl)adipate	10.8	5.0	ug/l	10.0		108	70-130	3	10	
Di(2-ethylhexyl)phthalate	11.9	3.0	ug/l	10.0		119	70-130	8	10	
Hexachlorobenzene	5.61	0.50	ug/l	5.00		112	70-130	3	10	
Hexachlorocyclopentadiene	13.3	1.0	ug/l	10.0		133	70-130	3	15	L
Molinate	5.08	2.0	ug/l	5.00		102	70-130	1	10	
Simazine	4.40	1.0	ug/l	5.00		88	70-130	5	10	
Thiobencarb	5.16	1.0	ug/l	5.00		103	70-130	3	5	

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Project ID: Title 22 Testing  
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Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C810210 Extracted: 09/02/08</b>									
<b>LCS Dup Analyzed: 09/03/2008 (C810210-BS1)</b>									
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.49		ug/l	5.00		90 70-130			
Surrogate: Triphenylphosphate	5.10		ug/l	5.00		102 70-130			
Surrogate: Perylene-d12	5.41		ug/l	5.00		108 70-130			

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Sampled: 08/25/08  
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## METHOD BLANK/QC DATA

### ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2720 Extracted: 08/27/08</b>										
<b>Blank Analyzed: 08/27/2008 (C8H2720-BLK1)</b>										
Alachlor	ND	1.0	ug/l							C
Endrin	ND	0.10	ug/l							C
Heptachlor	ND	0.010	ug/l							C
Heptachlor epoxide	ND	0.010	ug/l							C
Lindane (gamma-BHC)	ND	0.20	ug/l							C
Methoxychlor	ND	10	ug/l							C
Chlordane	ND	0.10	ug/l							
Toxaphene	ND	1.0	ug/l							
Aroclor 1016	ND	0.26	ug/l							
Aroclor 1221	ND	0.19	ug/l							
Aroclor 1232	ND	0.23	ug/l							
Aroclor 1242	ND	0.26	ug/l							
Aroclor 1248	ND	0.30	ug/l							
Aroclor 1254	ND	0.33	ug/l							
Aroclor 1260	ND	0.36	ug/l							
PCBs as Decachlorobiphenyl (DCB)	ND	0.50	ug/l							
<b>LCS Analyzed: 08/28/2008 (C8H2720-BS1)</b>										
Alachlor	1.56	1.0	ug/l	1.00		155	70-130			C, L
Endrin	0.167	0.10	ug/l	0.100		167	70-130			C, L
Heptachlor	0.152	0.010	ug/l	0.100		152	70-127			C, L
Heptachlor epoxide	0.184	0.010	ug/l	0.100		184	70-127			C, L
Lindane (gamma-BHC)	0.122	0.20	ug/l	0.100		122	77-128			
Methoxychlor	2.08	10	ug/l	0.501		414	70-130			C, L
<b>LCS Analyzed: 08/28/2008 (C8H2720-BS2)</b>										
Aroclor 1221	4.02	0.19	ug/l	5.01		80	73-130			

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Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2720 Extracted: 08/27/08</b>										
<b>LCS Dup Analyzed: 08/28/2008 (C8H2720-BSD1)</b>										
Alachlor	1.06	1.0	ug/l	0.601		176	70-130	12	20	C, L
Endrin	0.120	0.10	ug/l	0.0601		199	70-130	18	20	C, L
Heptachlor	0.104	0.010	ug/l	0.0601		172	70-127	13	20	C, L
Heptachlor epoxide	0.129	0.010	ug/l	0.0601		214	70-127	15	20	C, L
Lindane (gamma-BHC)	0.0884	0.20	ug/l	0.0601		147	77-128	19	20	C, L
Methoxychlor	1.35	10	ug/l	0.301		449	70-130	8	20	C, L
<b>Matrix Spike Analyzed: 08/28/2008 (C8H2720-MS1)</b>										
					<b>Source: CRH1072-01</b>					
Alachlor	1.19	1.0	ug/l	1.03	ND	115	65-135			
Endrin	0.0984	0.10	ug/l	0.103	ND	95	65-135			
Heptachlor	0.0355	0.010	ug/l	0.103	ND	34	65-135			M2
Heptachlor epoxide	0.104	0.010	ug/l	0.103	0.00704	93	65-135			
Lindane (gamma-BHC)	0.0889	0.20	ug/l	0.103	ND	86	65-135			
Methoxychlor	0.733	10	ug/l	0.517	ND	142	65-135			M1
<b>Matrix Spike Analyzed: 08/28/2008 (C8H2720-MS2)</b>										
					<b>Source: CRH1072-09</b>					
Alachlor	2.11	1.0	ug/l	0.974	ND	217	65-135			M1
Endrin	0.207	0.10	ug/l	0.0974	ND	213	65-135			M1
Heptachlor	0.114	0.010	ug/l	0.0974	ND	117	65-135			
Heptachlor epoxide	0.199	0.010	ug/l	0.0974	ND	204	65-135			M1
Lindane (gamma-BHC)	0.146	0.20	ug/l	0.0974	ND	150	65-135			M1
Methoxychlor	2.59	10	ug/l	0.487	ND	533	65-135			M1

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## METHOD BLANK/QC DATA

### CHLORINATED ACIDS (EPA 515.4)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2801 Extracted: 08/28/08</b>										
<b>Blank Analyzed: 08/28/2008 (C8H2801-BLK1)</b>										
Bentazon	ND	2.0	ug/l							C
2,4-D	ND	10	ug/l							C
Dalapon	ND	10	ug/l							
Dacthal acid metabolites	ND	1.0	ug/l							
Dicamba	ND	1.5	ug/l							
Dinoseb	ND	2.0	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	1.0	ug/l							C
2,4,5-TP (Silvex)	ND	1.0	ug/l							
Surrogate: 2,4-Dichlorophenylacetic acid	22.3		ug/l	20.1		111	70-130			
<b>LCS Analyzed: 08/28/2008 (C8H2801-BS1)</b>										
Bentazon	1.38	2.0	ug/l	0.805		172	70-130			C, L
2,4-D	1.19	10	ug/l	0.805		148	70-130			C, L
Dalapon	0.755	10	ug/l	0.805		94	70-130			
Dacthal acid metabolites	0.984	1.0	ug/l	0.805		122	70-130			
Dicamba	0.428	1.5	ug/l	0.402		106	70-130			
Dinoseb	0.780	2.0	ug/l	0.805		97	70-130			
Pentachlorophenol	0.0793	0.20	ug/l	0.0805		98	70-130			
Picloram	0.551	1.0	ug/l	0.402		137	70-130			C, L
2,4,5-TP (Silvex)	0.220	1.0	ug/l	0.201		109	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	22.4		ug/l	20.1		111	70-130			
<b>LCS Dup Analyzed: 08/29/2008 (C8H2801-BSD1)</b>										
Bentazon	2.01	2.0	ug/l	2.41		83	70-130	69	20	R-7
2,4-D	3.15	10	ug/l	2.41		130	70-130	12	20	
Dalapon	2.28	10	ug/l	2.41		94	70-130	1	20	
Dacthal acid metabolites	2.25	1.0	ug/l	2.41		93	70-130	27	20	R-7
Dicamba	1.16	1.5	ug/l	1.21		96	70-130	10	20	
Dinoseb	2.37	2.0	ug/l	2.41		98	70-130	1	20	
Pentachlorophenol	0.223	0.20	ug/l	0.241		92	70-130	6	20	
Picloram	1.70	1.0	ug/l	1.21		141	70-130	3	20	C, L
2,4,5-TP (Silvex)	0.632	1.0	ug/l	0.604		105	70-130	4	20	
Surrogate: 2,4-Dichlorophenylacetic acid	21.3		ug/l	20.1		106	70-130			

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## METHOD BLANK/QC DATA

### CHLORINATED ACIDS (EPA 515.4)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2801 Extracted: 08/28/08</b>									
<b>Matrix Spike Analyzed: 08/28/2008 (C8H2801-MS1)</b>					<b>Source: CRH0767-01</b>				
Bentazon	0.761	2.0	ug/l	0.799	ND	95	70-130		
2,4-D	1.15	10	ug/l	0.799	ND	144	70-130		MI
Dalapon	0.859	10	ug/l	0.799	ND	107	70-130		
Dacthal acid metabolites	0.904	1.0	ug/l	0.799	ND	113	70-130		
Dicamba	0.437	1.5	ug/l	0.400	ND	109	70-130		
Dinoseb	0.756	2.0	ug/l	0.799	ND	95	70-130		
Pentachlorophenol	0.0685	0.20	ug/l	0.0799	0.00815	76	70-130		
Picloram	0.647	1.0	ug/l	0.400	ND	162	70-130		MI
2,4,5-TP (Silvex)	0.215	1.0	ug/l	0.200	ND	108	70-130		
Surrogate: 2,4-Dichlorophenylacetic acid	5.76		ug/l	20.0		29	70-130		Z

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## METHOD BLANK/QC DATA

### CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2618 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/26/2008 (C8H2618-BLK1)</b>										
Aldicarb Sulfoxide	ND	3.0	ug/l							
Aldicarb Sulfone	ND	2.0	ug/l							
Oxamyl	ND	20	ug/l							
Methomyl	ND	2.0	ug/l							
3-Hydroxycarbofuran	ND	3.0	ug/l							
Aldicarb	ND	3.0	ug/l							
Carbofuran	ND	5.0	ug/l							
Carbaryl	ND	5.0	ug/l							
<b>LCS Analyzed: 08/26/2008 (C8H2618-BS1)</b>										
Aldicarb Sulfoxide	10.8	3.0	ug/l	10.0		108	80-120			
Aldicarb Sulfone	10.9	2.0	ug/l	10.0		109	80-120			
Oxamyl	11.2	20	ug/l	10.0		112	80-120			
Methomyl	11.2	2.0	ug/l	10.0		112	80-120			
3-Hydroxycarbofuran	10.9	3.0	ug/l	10.0		109	80-120			
Aldicarb	10.4	3.0	ug/l	10.0		104	80-120			
Carbofuran	10.3	5.0	ug/l	10.0		103	80-120			
Carbaryl	10.8	5.0	ug/l	10.0		108	80-120			
<b>LCS Dup Analyzed: 08/27/2008 (C8H2618-BSD1)</b>										
Aldicarb Sulfoxide	21.9	3.0	ug/l	20.0		110	80-120	2	20	
Aldicarb Sulfone	22.2	2.0	ug/l	20.0		111	80-120	2	20	
Oxamyl	22.9	20	ug/l	20.0		115	80-120	2	20	
Methomyl	22.6	2.0	ug/l	20.0		113	80-120	1	20	
3-Hydroxycarbofuran	22.3	3.0	ug/l	20.0		111	80-120	2	20	
Aldicarb	20.8	3.0	ug/l	20.0		104	80-120	0	20	
Carbofuran	20.9	5.0	ug/l	20.0		104	80-120	1	20	
Carbaryl	22.0	5.0	ug/l	20.0		110	80-120	2	20	

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## METHOD BLANK/QC DATA

### CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2618 Extracted: 08/26/08</b>									
<b>Matrix Spike Analyzed: 08/26/2008 (C8H2618-MS1)</b>					<b>Source: CRH0875-01</b>				
Aldicarb Sulfoxide	20.4	3.0	ug/l	20.0	ND	102	65-135		
Aldicarb Sulfone	20.2	2.0	ug/l	20.0	ND	101	65-135		
Oxamyl	20.8	20	ug/l	20.0	ND	104	65-135		
Methomyl	20.6	2.0	ug/l	20.0	ND	103	65-135		
3-Hydroxycarbofuran	20.3	3.0	ug/l	20.0	ND	101	65-135		
Aldicarb	18.2	3.0	ug/l	20.0	ND	91	65-135		
Carbofuran	18.8	5.0	ug/l	20.0	ND	94	65-135		
Carbaryl	19.9	5.0	ug/l	20.0	ND	100	65-135		

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## METHOD BLANK/QC DATA

### GLYPHOSATE (EPA 547)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2904 Extracted: 08/30/08</b>										
<b>Blank Analyzed: 08/30/2008 (C8H2904-BLK1)</b>										
Glyphosate	ND	25	ug/l							
<b>LCS Analyzed: 08/30/2008 (C8H2904-BS1)</b>										
Glyphosate	21.9	25	ug/l	25.0		88	80-110			
<b>LCS Dup Analyzed: 08/31/2008 (C8H2904-BSD1)</b>										
Glyphosate	40.9	25	ug/l	50.0		82	80-110	7	10	
<b>Matrix Spike Analyzed: 08/30/2008 (C8H2904-MS1)</b>										
Glyphosate	17.9	25	ug/l	25.0	ND	72	80-110			M2
<b>Matrix Spike Analyzed: 08/30/2008 (C8H2904-MS2)</b>										
Glyphosate	22.7	25	ug/l	25.0	ND	91	80-110			

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## METHOD BLANK/QC DATA

### DIQUAT/PARAQUAT (EPA 549.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2710 Extracted: 08/27/08</b>										
<b>Blank Analyzed: 08/27/2008 (C8H2710-BLK1)</b>										
Diquat	ND	4.0	ug/l							
Paraquat	ND	20	ug/l							
<b>LCS Analyzed: 08/27/2008 (C8H2710-BS1)</b>										
Diquat	17.8	4.0	ug/l	20.0		89	70-105			
Paraquat	17.5	20	ug/l	20.0		87	55-110			
<b>LCS Dup Analyzed: 08/27/2008 (C8H2710-BSD1)</b>										
Diquat	15.6	4.0	ug/l	20.0		78	70-105	13	15	
Paraquat	15.1	20	ug/l	20.0		75	55-110	15	15	
<b>Matrix Spike Analyzed: 08/27/2008 (C8H2710-MS1)</b>										
					<b>Source: CRH0933-01</b>					
Diquat	18.2	4.0	ug/l	20.0	ND	91	70-105			
Paraquat	17.3	20	ug/l	20.0	ND	87	55-110			

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Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8H2616 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/26/2008 (C8H2616-BLK1)</b>										
Odor	ND	1.0	T.O.N.							
<b>Batch: C8H2619 Extracted: 08/26/08</b>										
<b>Duplicate Analyzed: 08/26/2008 (C8H2619-DUP1)</b>										
Color	ND	1	Color Units		Source: CRH0933-01 ND			20		pH
<b>Batch: C8H2626 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/26/2008 (C8H2626-BLK1)</b>										
Turbidity	ND	0.10	NTU							
<b>Duplicate Analyzed: 08/26/2008 (C8H2626-DUP1)</b>										
Turbidity	ND	0.10	NTU		Source: CRH0933-01 ND			10		

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Attention: Mike Haslam

Project ID: Title 22 Testing  
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Report Number: CRH0933

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H26070 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/26/2008 (8H26070-BLK1)</b>										
Mercury	ND	0.00020	mg/l							
<b>LCS Analyzed: 08/26/2008 (8H26070-BS1)</b>										
Mercury	0.00811	0.00020	mg/l	0.00800		101	85-115			
<b>Matrix Spike Analyzed: 08/26/2008 (8H26070-MS1)</b>										
Mercury	0.00807	0.00020	mg/l	0.00800	0.000144	99	70-130			
<b>Matrix Spike Dup Analyzed: 08/26/2008 (8H26070-MSD1)</b>										
Mercury	0.00809	0.00020	mg/l	0.00800	0.000144	99	70-130	0	20	
<b>Batch: 8H26081 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/27/2008 (8H26081-BLK1)</b>										
Aluminum	ND	10	ug/l							
Uranium pCi/L (CA)	ND	1.0	pCi/L							
Antimony	ND	2.0	ug/l							
Arsenic	ND	1.0	ug/l							
Barium	ND	1.0	ug/l							
Beryllium	ND	0.50	ug/l							
Cadmium	ND	1.0	ug/l							
Chromium	ND	2.0	ug/l							
Copper	ND	2.0	ug/l							
Lead	ND	1.0	ug/l							
Manganese	ND	1.0	ug/l							
Nickel	ND	2.0	ug/l							
Selenium	ND	2.0	ug/l							
Silver	ND	1.0	ug/l							
Thallium	ND	1.0	ug/l							
Zinc	ND	20	ug/l							

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H26081 Extracted: 08/26/08</b>										
<b>LCS Analyzed: 08/27/2008 (8H26081-BS1)</b>										
Aluminum	86.6	10	ug/l	80.0		108	85-115			
Uranium pCi/L (CA)	54.2	1.0	pCi/L	53.6		101	85-115			
Antimony	79.5	2.0	ug/l	80.0		99	85-115			
Arsenic	78.1	1.0	ug/l	80.0		98	85-115			
Barium	80.8	1.0	ug/l	80.0		101	85-115			
Beryllium	82.9	0.50	ug/l	80.0		104	85-115			
Cadmium	78.0	1.0	ug/l	80.0		98	85-115			
Chromium	79.5	2.0	ug/l	80.0		99	85-115			
Copper	81.5	2.0	ug/l	80.0		102	85-115			
Lead	81.1	1.0	ug/l	80.0		101	85-115			
Manganese	80.9	1.0	ug/l	80.0		101	85-115			
Nickel	80.0	2.0	ug/l	80.0		100	85-115			
Selenium	77.9	2.0	ug/l	80.0		97	85-115			
Silver	79.3	1.0	ug/l	80.0		99	85-115			
Thallium	80.8	1.0	ug/l	80.0		101	85-115			
Zinc	79.5	20	ug/l	80.0		99	85-115			
<b>Matrix Spike Analyzed: 08/27/2008 (8H26081-MS1)</b>										
				<b>Source: CRH0933-01</b>						
Aluminum	88.0	10	ug/l	80.0	ND	110	70-130			
Uranium pCi/L (CA)	50.6	1.0	pCi/L	53.6	5.73	84	70-130			
Antimony	75.9	2.0	ug/l	80.0	ND	95	70-130			
Arsenic	89.3	1.0	ug/l	80.0	9.73	99	70-130			
Barium	109	1.0	ug/l	80.0	33.8	94	70-130			
Beryllium	101	0.50	ug/l	80.0	ND	126	70-130			
Cadmium	70.3	1.0	ug/l	80.0	ND	88	70-130			
Chromium	85.3	2.0	ug/l	80.0	4.80	101	70-130			
Copper	76.1	2.0	ug/l	80.0	2.25	92	70-130			
Lead	67.9	1.0	ug/l	80.0	ND	85	70-130			
Manganese	80.2	1.0	ug/l	80.0	ND	100	70-130			
Nickel	77.1	2.0	ug/l	80.0	1.82	94	70-130			
Selenium	75.8	2.0	ug/l	80.0	4.96	89	70-130			
Silver	69.3	1.0	ug/l	80.0	ND	87	70-130			
Thallium	67.0	1.0	ug/l	80.0	ND	84	70-130			
Zinc	74.1	20	ug/l	80.0	4.21	87	70-130			

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H26081 Extracted: 08/26/08</b>										
<b>Matrix Spike Dup Analyzed: 08/27/2008 (8H26081-MSD1)</b>					<b>Source: CRH0933-01</b>					
Aluminum	88.0	10	ug/l	80.0	ND	110	70-130	0	20	
Uranium pCi/L (CA)	52.6	1.0	pCi/L	53.6	5.73	87	70-130	4	20	
Antimony	76.5	2.0	ug/l	80.0	ND	96	70-130	1	20	
Arsenic	91.7	1.0	ug/l	80.0	9.73	103	70-130	3	20	
Barium	108	1.0	ug/l	80.0	33.8	92	70-130	1	20	
Beryllium	100	0.50	ug/l	80.0	ND	126	70-130	0	20	
Cadmium	69.5	1.0	ug/l	80.0	ND	87	70-130	1	20	
Chromium	85.0	2.0	ug/l	80.0	4.80	100	70-130	0	20	
Copper	74.8	2.0	ug/l	80.0	2.25	91	70-130	2	20	
Lead	69.0	1.0	ug/l	80.0	ND	86	70-130	2	20	
Manganese	80.0	1.0	ug/l	80.0	ND	100	70-130	0	20	
Nickel	75.3	2.0	ug/l	80.0	1.82	92	70-130	2	20	
Selenium	76.3	2.0	ug/l	80.0	4.96	89	70-130	1	20	
Silver	69.0	1.0	ug/l	80.0	ND	86	70-130	0	20	
Thallium	69.2	1.0	ug/l	80.0	ND	86	70-130	3	20	
Zinc	70.0	20	ug/l	80.0	4.21	82	70-130	6	20	

### **Batch: 8H29097 Extracted: 08/29/08**

#### **Blank Analyzed: 09/03/2008-09/04/2008 (8H29097-BLK1)**

Calcium	0.221	0.10	mg/l							B
Iron	ND	0.040	mg/l							
Magnesium	ND	0.020	mg/l							
Potassium	ND	0.50	mg/l							
Sodium	ND	0.50	mg/l							

#### **LCS Analyzed: 09/03/2008-09/04/2008 (8H29097-BS1)**

Calcium	0.965	0.10	mg/l	1.00		96	85-115			
Iron	0.961	0.040	mg/l	1.00		96	85-115			
Magnesium	1.04	0.020	mg/l	1.00		104	85-115			
Potassium	10.2	0.50	mg/l	10.0		102	85-115			
Sodium	9.72	0.50	mg/l	10.0		97	85-115			

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H29097 Extracted: 08/29/08</b>										
<b>Matrix Spike Analyzed: 09/03/2008-09/04/2008 (8H29097-MS1)</b>					<b>Source: IRH2251-02</b>					
Calcium	64.8	0.10	mg/l	1.00	65.8	-98	70-130			MHA
Iron	0.951	0.040	mg/l	1.00	ND	95	70-130			
Magnesium	15.0	0.020	mg/l	1.00	14.4	60	70-130			MHA
Potassium	15.2	0.50	mg/l	10.0	4.59	106	70-130			
Sodium	80.1	0.50	mg/l	10.0	72.7	73	70-130			MHA
<b>Matrix Spike Analyzed: 09/03/2008-09/04/2008 (8H29097-MS2)</b>					<b>Source: CRH0933-01</b>					
Calcium	99.5	0.10	mg/l	1.00	101	-126	70-130			MHA
Iron	0.902	0.040	mg/l	1.00	ND	90	70-130			
Magnesium	15.9	0.020	mg/l	1.00	14.9	97	70-130			MHA
Potassium	19.1	0.50	mg/l	10.0	8.23	109	70-130			
Sodium	365	0.50	mg/l	10.0	370	-57	70-130			MHA
<b>Matrix Spike Dup Analyzed: 09/03/2008-09/04/2008 (8H29097-MSD1)</b>					<b>Source: IRH2251-02</b>					
Calcium	65.2	0.10	mg/l	1.00	65.8	-56	70-130	1	20	MHA
Iron	0.956	0.040	mg/l	1.00	ND	96	70-130	1	20	
Magnesium	15.1	0.020	mg/l	1.00	14.4	69	70-130	1	20	MHA
Potassium	15.4	0.50	mg/l	10.0	4.59	108	70-130	1	20	
Sodium	81.2	0.50	mg/l	10.0	72.7	85	70-130	1	20	MHA

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H25092 Extracted: 08/25/08</b>										
<b>Blank Analyzed: 08/25/2008 (8H25092-BLK1)</b>										
Chromium VI	ND	0.0010	mg/l							
<b>LCS Analyzed: 08/25/2008 (8H25092-BS1)</b>										
Chromium VI	0.0518	0.0010	mg/l	0.0500		104	90-110			
<b>Matrix Spike Analyzed: 08/25/2008 (8H25092-MS1)</b>										
Chromium VI	0.0340	0.0010	mg/l	0.0500	ND	68	90-110			M2
<b>Matrix Spike Dup Analyzed: 08/25/2008 (8H25092-MSD1)</b>										
Chromium VI	0.0343	0.0010	mg/l	0.0500	ND	69	90-110	1	10	M2
<b>Batch: 8H25106 Extracted: 08/25/08</b>										
<b>Blank Analyzed: 08/25/2008 (8H25106-BLK1)</b>										
Chloride	ND	0.50	mg/l							
Nitrate-N	ND	0.11	mg/l							
Nitrate-NO3	ND	0.50	mg/l							
Nitrite-N	ND	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.26	mg/l							
Sulfate	ND	0.50	mg/l							
<b>LCS Analyzed: 08/25/2008 (8H25106-BS1)</b>										
Chloride	4.87	0.50	mg/l	5.00		97	90-110			M-3
Nitrate-N	1.06	0.11	mg/l	1.13		94	90-110			
Nitrate-NO3	4.69	0.50	mg/l	5.00		94	90-110			
Nitrite-N	1.50	0.15	mg/l	1.52		99	90-110			
Sulfate	10.3	0.50	mg/l	10.0		103	90-110			

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H25106 Extracted: 08/25/08</b>										
<b>Matrix Spike Analyzed: 08/25/2008 (8H25106-MS1)</b>					<b>Source: IRH2249-01</b>					
Nitrate-N	74.2	5.5	mg/l	11.3	65.0	81	80-120			MHA
Nitrate-NO3	329	25	mg/l	50.0	288	81	80-120			MHA
Nitrite-N	15.4	7.5	mg/l	15.2	ND	101	80-120			
Sulfate	1120	25	mg/l	100	1050	71	80-120			MHA
<b>Matrix Spike Analyzed: 08/26/2008 (8H25106-MS2)</b>					<b>Source: IRH2254-02</b>					
Chloride	71.5	10	mg/l	50.0	28.8	85	80-120			
Nitrate-N	17.3	2.2	mg/l	11.3	7.95	83	80-120			
Nitrate-NO3	76.8	10	mg/l	50.0	35.2	83	80-120			
Nitrite-N	13.3	3.0	mg/l	15.2	ND	87	80-120			
Sulfate	142	10	mg/l	100	45.1	97	80-120			
<b>Matrix Spike Dup Analyzed: 08/25/2008 (8H25106-MSD1)</b>					<b>Source: IRH2249-01</b>					
Nitrate-N	75.5	5.5	mg/l	11.3	65.0	92	80-120	2	20	MHA
Nitrate-NO3	334	25	mg/l	50.0	288	92	80-120	2	20	MHA
Nitrite-N	18.6	7.5	mg/l	15.2	ND	122	80-120	19	20	MI
Sulfate	1110	25	mg/l	100	1050	65	80-120	1	20	MHA
<b>Batch: 8H26061 Extracted: 08/26/08</b>										
<b>Duplicate Analyzed: 08/26/2008 (8H26061-DUP1)</b>					<b>Source: IRH2272-01</b>					
pH	7.89	0.100	pH Units		7.88			0	5	HFT
<b>Batch: 8H26076 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/26/2008 (8H26076-BLK1)</b>										
Alkalinity as CaCO3	ND	2.0	mg/l							
Alkalinity as CaCO3	ND	2.0	mg/l							
Bicarbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l							

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H26076 Extracted: 08/26/08</b>										
<b>Duplicate Analyzed: 08/26/2008 (8H26076-DUP1)</b>					<b>Source: CRH0933-01</b>					
Alkalinity as CaCO <sub>3</sub>	116	2.0	mg/l		118			2	20	
Alkalinity as CaCO <sub>3</sub>	116	2.0	mg/l		118			2	20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	116	2.0	mg/l		118			2	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l		ND				20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	2.0	mg/l		ND				20	
<b>Reference Analyzed: 08/26/2008 (8H26076-SRM1)</b>										
Alkalinity as CaCO <sub>3</sub>	232	2.0	mg/l	249		93	90-110			
Alkalinity as CaCO <sub>3</sub>	232	2.0	mg/l	249		93	90-110			
<b>Batch: 8H26127 Extracted: 08/26/08</b>										
<b>Blank Analyzed: 08/27/2008 (8H26127-BLK1)</b>										
Surfactants (MBAS)	ND	0.10	mg/l							
<b>LCS Analyzed: 08/27/2008 (8H26127-BS1)</b>										
Surfactants (MBAS)	0.259	0.10	mg/l	0.250		103	90-110			
<b>Matrix Spike Analyzed: 08/27/2008 (8H26127-MS1)</b>					<b>Source: IRH2251-02</b>					
Surfactants (MBAS)	0.251	0.10	mg/l	0.250	ND	101	50-125			
<b>Matrix Spike Dup Analyzed: 08/27/2008 (8H26127-MSD1)</b>					<b>Source: IRH2251-02</b>					
Surfactants (MBAS)	0.255	0.10	mg/l	0.250	ND	102	50-125	2	20	
<b>Batch: 8H27039 Extracted: 08/27/08</b>										
<b>Blank Analyzed: 08/27/2008 (8H27039-BLK1)</b>										
Fluoride	ND	0.10	mg/l							

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H27039 Extracted: 08/27/08</b>										
<b>LCS Analyzed: 08/27/2008 (8H27039-BS1)</b>										
Fluoride	1.03	0.10	mg/l	1.00		103	90-110			
<b>Matrix Spike Analyzed: 08/27/2008 (8H27039-MS1)</b>										
Fluoride	1.23	0.10	mg/l	1.00	0.374	85	80-120			
<b>Matrix Spike Dup Analyzed: 08/27/2008 (8H27039-MSD1)</b>										
Fluoride	1.25	0.10	mg/l	1.00	0.374	88	80-120	2	20	
<b>Batch: 8H27049 Extracted: 08/27/08</b>										
<b>Blank Analyzed: 08/27/2008 (8H27049-BLK1)</b>										
Total Dissolved Solids	ND	10	mg/l							
<b>LCS Analyzed: 08/27/2008 (8H27049-BS1)</b>										
Total Dissolved Solids	980	10	mg/l	1000		98	90-110			
<b>Duplicate Analyzed: 08/27/2008 (8H27049-DUP1)</b>										
Total Dissolved Solids	312	10	mg/l		290			7	10	
<b>Batch: 8H27054 Extracted: 08/27/08</b>										
<b>Duplicate Analyzed: 08/27/2008 (8H27054-DUP1)</b>										
Specific Conductance	815	1.0	umhos/cm @ 25C		812			0	5	
<b>Reference Analyzed: 08/27/2008 (8H27054-SRM1)</b>										
Specific Conductance	497	1.0	umhos/cm @ 25C	462		108	90-110			

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8H27101 Extracted: 08/27/08</b>									
<b>Blank Analyzed: 08/27/2008 (8H27101-BLK1)</b>									
Total Cyanide	ND	0.025	mg/l						
<b>LCS Analyzed: 08/27/2008 (8H27101-BS1)</b>									
Total Cyanide	0.186	0.025	mg/l	0.200		93	90-110		
<b>Matrix Spike Analyzed: 08/27/2008 (8H27101-MS1)</b>									
Total Cyanide	0.194	0.025	mg/l	0.200	ND	97	70-115		
<b>Matrix Spike Dup Analyzed: 08/27/2008 (8H27101-MSD1)</b>									
Total Cyanide	0.180	0.025	mg/l	0.200	ND	90	70-115	8	15

TestAmerica Ontario

Melissa Cunningham  
Project Manager

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CRH0933 <Page 49 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### EPA-5 1613B-Tetras

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8242295 Extracted: 08/29/08</b>									
<b>Blank Analyzed: 09/03/2008 (G8H290000295B)</b>					<b>Source:</b>				
2,3,7,8-TCDD	ND	5.0	pg/L			-			
Surrogate: 13C-2,3,7,8-TCDD	1000		pg/L	2000		50	25-141		
<b>LCS Analyzed: 09/03/2008 (G8H290000295C)</b>					<b>Source:</b>				
2,3,7,8-TCDD	164	NA	pg/L	200		82	73-146		
Surrogate: 13C-2,3,7,8-TCDD	979		pg/L	2000		49	25-141		

TestAmerica Ontario

Melissa Cunningham  
Project Manager

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CRH0933 <Page 50 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### EPA 900.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8246173 Extracted: 09/02/08</b>									
<b>Matrix Spike Analyzed: 09/07/2008 (F8H280256003S)</b>					<b>Source: F8H280256003</b>				
Gross Alpha	76.7	3	pCi/L	83.1	4	87	44-150		
<b>Duplicate Analyzed: 09/07/2008 (F8H280256003X)</b>					<b>Source:</b>				
Gross Alpha	2.7	3	pCi/L				-	42	40 U
<b>Blank Analyzed: 09/07/2008 (F8I020000173B)</b>					<b>Source:</b>				
Gross Alpha	0.37	3	pCi/L				-		U
<b>LCS Analyzed: 09/07/2008 (F8I020000173C)</b>					<b>Source:</b>				
Gross Alpha	45.4	3	pCi/L	49.4		92	72-138		

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Melissa Cunningham  
Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### EPA 903.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8242349 Extracted: 08/29/08</b>									
<b>Blank Analyzed: 09/10/2008 (F8H290000349B)</b>									
Radium (total)	0.1	1	pCi/L		Source:	-			U
<b>LCS Analyzed: 09/10/2008 (F8H290000349C)</b>									
Radium (total)	10.9	1	pCi/L	11.3	Source:	97	71-125		
<b>LCS Dup Analyzed: 09/10/2008 (F8H290000349L)</b>									
Radium (total)	10.9	1	pCi/L	11.3	Source:	96	71-125	1	40

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Melissa Cunningham  
Project Manager

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CRH0933 <Page 52 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### EPA 904 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8242348 Extracted: 08/30/08</b>									
<b>Blank Analyzed: 09/10/2008 (F8H290000348B)</b>									
Radium 228	0.08	1	pCi/L		Source:	-			U
<b>LCS Analyzed: 09/10/2008 (F8H290000348C)</b>									
Radium 228	8.71	1	pCi/L	7.65	Source:	114	61-139		
<b>LCS Dup Analyzed: 09/10/2008 (F8H290000348L)</b>									
Radium 228	8.43	1	pCi/L	7.65	Source:	110	61-139	3	40

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Project Manager

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CRH0933 <Page 53 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## METHOD BLANK/QC DATA

### EPA 906.0 MOD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8246079 Extracted: 09/02/08</b>										
<b>Duplicate Analyzed: 09/03/2008 (F8H290219001X)</b>										
Tritium	5070	500	pCi/L				-	3	40	
<b>Matrix Spike Analyzed: 09/03/2008 (F8H290240001S)</b>										
Tritium	5070	500	pCi/L	4920	110	101	27-150			
<b>Blank Analyzed: 09/03/2008 (F8I020000079B)</b>										
Tritium	250	500	pCi/L				-			U
<b>LCS Analyzed: 09/03/2008 (F8I020000079C)</b>										
Tritium	5060	500	pCi/L	4920		103	67-111			

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Project Manager

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CRH0933 <Page 54 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## DATA QUALIFIERS AND DEFINITIONS

<b>B</b>	Analyte was detected in the associated Method Blank.
<b>B-1</b>	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
<b>C</b>	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
<b>FT</b>	This analysis was performed in the field by the sampler whose name appears on the attached Chain of Custody form.
<b>HFT</b>	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
<b>L</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
<b>M1</b>	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>M2</b>	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>M-3</b>	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
<b>MHA</b>	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
<b>pH</b>	pH = 7.5
<b>R</b>	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
<b>R-7</b>	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
<b>RL1</b>	Reporting limit raised due to sample matrix effects.
<b>U</b>	Result is less than the sample detection limit.
<b>Z</b>	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
<b>Z1</b>	Surrogate recovery was above acceptance limits.
<b>Z2</b>	Surrogate recovery was above the acceptance limits. Data not impacted.
<b>ND</b>	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
<b>RPD</b>	Relative Percent Difference
<b>T.O.N.</b>	Threshold Odor Number
<b>SI Units</b>	Saturation Index Units

TestAmerica Ontario

Melissa Cunningham  
Project Manager

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CRH0933 <Page 55 of 57>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

## Certification Summary

### TestAmerica Ontario

Method	Matrix	Nelac	California
EPA 180.1	Water	X	X
EPA 504.1	Water	X	X
EPA 505	Water	X	X
EPA 515.4	Water	X	X
EPA 524.2	Water	X	X
EPA 525.2	Water	X	X
EPA 531.1	Water	X	
EPA 547	Water	X	X
EPA 549.2	Water	X	X
Field Test	Water		
SM2120B	Water	N/A	N/A
SM2150B	Water	N/A	N/A
SRL 524M-123TCP	Water		

### Subcontracted Laboratories

#### EMS Laboratories-Sub California Cert #1119

117 West Bellvue Drive - Pasadena, CA 91105-2503

Method Performed: EPA 100.2

Samples: CRH0933-01

#### STL - St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: EPA 900.0 MOD

Samples: CRH0933-01

Method Performed: EPA 903.0 MOD

Samples: CRH0933-01

Method Performed: EPA 904 MOD

Samples: CRH0933-01

Method Performed: EPA 906.0 MOD

Samples: CRH0933-01

#### STL-Sacramento Nelac Cert #01119CA, Arizona Cert #AZ0708

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B-Tetras

Samples: CRH0933-01

### TestAmerica Ontario

Melissa Cunningham  
Project Manager

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1014 E. Cooley Dr. Ste A, Colton, CA 92324 (909) 370-4667 Fax: (909) 370-1046

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Mike Haslam

Project ID: Title 22 Testing  
Title 22 Testing  
Report Number: CRH0933

Sampled: 08/25/08  
Received: 08/25/08

**TestAmerica - Irvine, CA** *Nelac Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA-72*

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: Calc  
Samples: CRH0933-01

Method Performed: EPA 150.1  
Samples: CRH0933-01

Method Performed: EPA 200.7  
Samples: CRH0933-01

Method Performed: EPA 200.8  
Samples: CRH0933-01

Method Performed: EPA 218.6  
Samples: CRH0933-01

Method Performed: EPA 245.1  
Samples: CRH0933-01

Method Performed: EPA 300.0  
Samples: CRH0933-01

Method Performed: SM 4500-F-C  
Samples: CRH0933-01

Method Performed: SM2320B  
Samples: CRH0933-01

Method Performed: SM2340B  
Samples: CRH0933-01

Method Performed: SM2510B  
Samples: CRH0933-01

Method Performed: SM2540C  
Samples: CRH0933-01

Method Performed: SM4500-CN-C,E  
Samples: CRH0933-01

Method Performed: SM5540-C  
Samples: CRH0933-01

## TestAmerica Ontario

Melissa Cunningham  
Project Manager

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CRH0933 <Page 57 of 57>



Del Mar Analytical

Providing Quality Environmental Laboratory Services

2852 Alton Avenue, Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228  
1014 East Cooley Drive, Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
9484 Chesapeake Dr., Ste. 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689  
9830 South 51st, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
2520 East Sunset, #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

DRINKING WATER CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name: <u>LAYNE CHRISTENSEN COMPANY</u>		P.O./Project Name: <u>Happen Lake - #27-1643, 02.20</u>	
Address: <u>11001 FERNANDA AVE</u>		Project Manager: <u>VICTOR JACKOWICH</u>	
City: <u>FONTANA</u>		State: <u>CA</u> Zip: <u>92337</u>	
Tel: <u>(909) 390-2833</u> Fax: <u>(909) 390-6047</u>		Data to state's database? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Sampler(s) Name & Signature: <u>Victor Jackowich</u>		Compliance Sample: Yes <input type="checkbox"/> No <input type="checkbox"/>	
POE #:		PWS ID#:	
Samples acidified after dechlorination? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Sample I.D.	Date Sampled	Time	Matrix (see Matrix Table)
<u>RYKEN-Well-B2</u>	<u>GW</u>	<u>8/25/08</u>	<u>0930</u>
Number of Containers			
Volatiles Reg. <input type="checkbox"/> UnReg. <input type="checkbox"/> 524.2			
Trihalomethanes Only 524.2			
Semivolatiles Reg. <input type="checkbox"/> UnReg. <input type="checkbox"/> 525.2			
EDB/DBCP/TCP 504.1			
Pesticides and PCBs 505 <input type="checkbox"/> 508.1 <input type="checkbox"/>			
Chlorinated Acids 515.3			
Carbamates 531.1			
Glyphosate 547			
Endothal 548.1			
Diquat/Paraquat 549.2			
Coliform, Total <input type="checkbox"/> Fecal <input type="checkbox"/>			
Heterotrophic Plate Count (HPC)			
Metals (Specify)			
General Minerals (see fee schedule)			
General Physical (see fee schedule)			
Inorganic Chemicals (see fee schedule)			
Yes <input type="checkbox"/> No <input type="checkbox"/>			
Aluminum <input type="checkbox"/> Antimony <input type="checkbox"/> Arsenic <input type="checkbox"/> Barium <input type="checkbox"/> Beryllium <input type="checkbox"/> Boron <input type="checkbox"/> Cadmium <input type="checkbox"/> Calcium <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Iron <input type="checkbox"/> Lead <input type="checkbox"/> Magnesium <input type="checkbox"/> Manganese <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Potassium <input type="checkbox"/> Selenium <input type="checkbox"/> Silver <input type="checkbox"/> Sodium <input type="checkbox"/> Thallium <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc <input type="checkbox"/> other: <input type="checkbox"/>			
pH: <u>6.15</u> Temp: <u>23.8°C</u>			
Turnaround Time: (check one)			
Normal <input type="checkbox"/> 7 day <input type="checkbox"/>			
72 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/>			
24 Hours <input type="checkbox"/> Immediate <input type="checkbox"/>			
*Surcharges may be applied for remaining hold time <48 hours.			
Sample Integrity: Temp: <input type="checkbox"/> On Ice: <input type="checkbox"/>			
Intact: <input checked="" type="checkbox"/>			

Relinquished by: [Signature] Date/Time: 8-25-08/0855

Relinquished by: [Signature] Date/Time: 8-25-08/0855

Received by: [Signature] Date/Time: 8-25-08/0855

Received by: [Signature] Date/Time: 8-25-08/1146

Remarks: ATTN: MELISSA CUNNINGHAM

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days. All work is subject to Del Mar Analytical's terms and conditions unless previously agreed to in writing.

091 315

DATE: September 3, 2008  
CLIENT: TestAmerica, Ontario  
1014 E. Cooley Dr, Ste. A  
Colton, CA 92324  
ATTENTION: Melissa Cunningham  
REFERENCE: CRH0933  
REPORT NO: 123466  
SUBJECT: ANALYSIS OF WATER SAMPLE FOR ASBESTOS BY TEM  
ACCREDITED: California Department of Health Services (ELAP-1119)

The date and times of collection, receipt, filtration, and analysis are as follows:

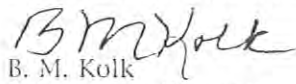
SAMPLE NO: CRH0933-01  
COLLECTED: 8/25/08 at 0830  
RECEIVED: 8/26/08 at 1040  
FILTERED: 8/26/08 at 1115  
ANALYZED: 9/2/08

The sample was analyzed for fibers  $>10\ \mu\text{m}$  in length to conform with the drinking water document, EPA 600 R 94 134, 100.2. This regulation calls for an MCL (maximum contaminant level) of 7 MFL and an analytical sensitivity level of 0.2 MFL.

No asbestos structures  $>10\ \mu\text{m}$  in length were detected. The analytical sensitivity of 0.2 MFL was reached.

The results of the analysis and the detection limit are summarized on the following pages.

Respectfully submitted,  
EMS LABORATORIES, INC.

  
B. M. Kolk  
Laboratory Director

BMK/mt

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.



LAB NO: 123466  
CLIENT: Test America  
9/2/2008

\* FOR FIBERS > 10μm ONLY

\* FOR FIBERS > 10μm ONLY

BM Kolk  
Authorized Signature

**EMS LABORATORIES** 117 West Bellevue Drive / Pasadena CA 91105-2503 / 626-568-4065

**Analysis of Water by Transmission Electron Microscopy  
(EPA-600 R 94 134) EPA 100.2**

<b>EMS No.</b>	123466	<b>Client</b>	Test America
<b>Sample No.</b>	CRH0933-01	<b>Date Analyzed</b>	9/2/2008

Fibers > 10 µm in length (chrysotile)	<u>BDL*</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Poisson 95% Confidence Interval	<u>0</u> to <u>0.7</u>	MFL
Detection Limit	<u>0.2</u>	MFL

\* BDL : Below Detection Limit; MFL: Million Fibers per Liter

**Particle Size Distribution ( Chrysotile )**

Particle Length - Microns							
0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 - 4.99	5.00 - 9.99	10 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Particle Width - Microns							
0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 - .49	.50 - .99	1 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Aspect Ratio L/W							
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 - 99	100 - 199	200 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

TEM 7B (1994)

**Analysis of Water by Transmission Electron Microscopy  
(EPA-600/4-83-043)**

<b>EMS No.</b>	123466	<b>Date Analyzed</b>	9/2/2008
<b>Client</b>	Test America		
<b>Sample No.</b>	EMS BLANK		

Fibers (chrysotile)	<u>ND</u>	MFL
> 5 Micron length (chrysotile)	<u>ND</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Sensitivity Level	<u>0.01</u>	MFL

**Particle Size Distribution ( Chrysotile )**

Particle Length - Microns					
0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Particle Width - Microns					
0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Aspect Ratio L/W					
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

## SUBCONTRACT ORDER

TestAmerica Ontario

CRH0933

123466

SENDING LABORATORY:

TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa Cunningham

RECEIVING LABORATORY:

EMS Laboratories-Sub  
117 West Bellvue Drive  
Pasadena, CA 91105-2503  
Phone :626-568-4065  
Fax: 626-796-5282  
Project Location: California  
Receipt Temperature: S °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
----------	-------	-----	---------	----------

Sample ID: CRH0933-01	Water	Sampled: 08/25/08 08:30		
Asbestos By TEM-O	Present/Not Pr	09/08/08	08/27/08 08:30	
Containers Supplied:				
1 Liter Poly (Z)				

Michael Lopez 8-26-08 1030  
Released By Date/Time

[Signature] 8-26-08 10:40  
Received By Date/Time

Released By Date/Time

Received By Date/Time

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

PROJECT NO. TA-C

TA-C

Lot #: F8H290240

TestAmerica - Ontario

TestAmerica - Ontario

1014 E. Cooley Dr

Suite A

Colton, CA 92324

TESTAMERICA LABORATORIES, INC.

FOR:

*Sherryl Adam*

Sherryl Adam  
Project Manager

September 15, 2008

Case Narrative  
LOT NUMBER: F8H290240

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on August 29, 2008. This sample is associated with your TA-C project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

**Observations/Nonconformances**

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

**Gross Alpha Method: 900.0 MOD**

The Gross Alpha reporting limit was not met due to a reduction of sample size attributed to the sample's high residual mass. The analytical results are reported.

**Affected Sample:**

F8H290240 (1): CRH0933-01

**METHODS SUMMARY****F8H290240**

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Total Alpha Radium by GFPC	EPA 903.0 MOD	

**References:**

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY  
PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

**SAMPLE SUMMARY****F8H290240**

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
KV2WF	001	CRH0933-01		08/25/08	08:30

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



**TestAmerica Ontario**  
**Client Sample ID: CRH0933-01**

**Radiochemistry**

Lab Sample ID: F8H290240-001  
 Work Order: KV2WF  
 Matrix: WATER

Date Collected: 08/25/08 0830  
 Date Received: 08/29/08 1315

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
<b>Gross Alpha/Beta EPA 900</b>				<b>pCi/L</b>		<b>Batch # 8246173</b>	<b>Yld %</b>
Gross Alpha	2.1	U	5.3	3.0	9.5	09/02/08	09/07/08
<b>Radium 228 by GFPC EPA 904 MOD</b>				<b>pCi/L</b>		<b>Batch # 8242348</b>	<b>Yld % 82</b>
Radium 228	0.14	U	0.25	1.00	0.42	08/29/08	09/10/08
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>				<b>pCi/L</b>		<b>Batch # 8246079</b>	<b>Yld %</b>
Tritium	110	U	190	500	320	09/02/08	09/03/08
<b>Total Alpha Radium EPA 903.0 MOD</b>				<b>pCi/L</b>		<b>Batch # 8242349</b>	<b>Yld % 101</b>
Radium (total)	0.19	U	0.14	1.00	0.20	08/29/08	09/10/08

**NOTE(S)**

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## METHOD BLANK REPORT

## Radiochemistry

Client Lot ID: F8H290240  
 Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
<b>Total Alpha Radium EPA 903.0 MOD</b>							
Radium (total)	0.10	U	0.11	1.00	0.16	08/29/08	F8H290000-349B 09/10/08
<b>Radium 228 by GFPC EPA 904 MOD</b>							
Radium 228	0.08	U	0.23	1.00	0.40	08/29/08	F8H290000-348B 09/10/08
<b>Gross Alpha/Beta EPA 900</b>							
Gross Alpha	0.37	U	0.56	3.00	0.94	09/02/08	F8I020000-173B 09/07/08
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>							
Tritium	250	U	200	500	320	09/02/08	F8I020000-079B 09/03/08

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## Laboratory Control Sample Report

## Radiochemistry

Client Lot ID: F8H290240  
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 $\sigma$ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
<hr/>							
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F8I020000-079C
Tritium	4920	5060	500	320		103	(67 - 111)
	Batch #:	8246079		Analysis Date:	09/03/08		
<hr/>							
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F8I020000-173C
Gross Alpha	49.4	45.4	5.3	1.1		92	(72 - 138)
	Batch #:	8246173		Analysis Date:	09/07/08		
<hr/>							

## NOTE(S)

MDC is determined by instrument performance only  
 Calculations are performed before rounding to avoid round-off error in calculated results

## MATRIX SPIKE REPORT

## Radiochemistry

Client Lot Id: F8H280256  
 Matrix: WATER

Date Sampled: 08/21/08  
 Date Received: 08/28/08

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD				F8H280256-003
Gross Alpha	83.1	76.7	9.9		4.0	2.1	87		(44 - 150)
	Batch #:	8246173		Analysis Date:	09/07/08				
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L		906.0 MOD				F8H290240-001
Tritium	4920	5070	500		110	190	101		(27 - 150)
	Batch #:	8246079		Analysis Date:	09/03/08				

## NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Laboratory Control Sample/LCS Duplicate Report

## Radiochemistry

Client Lot ID: F8H290240  
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 $\sigma$ +/-)	% Yld	% Rec	QC Control Limits	Lab Sample ID Precision
<hr/>							
Total Alpha Radium	EPA 903.0 MOD	pCi/L	903.0 MOD				F8H290000-349C
Radium (total)	11.3	10.9	1.1	94	97	(71 - 125)	
Spk 2	11.3	10.9	1.1	94	96	(71 - 125)	0.6 %RPD
	Batch #:	8242349				Analysis Date: 09/10/08	
<hr/>							
Radium 228 by GFPC	EPA 904 MOD	pCi/L	904 MOD				F8H290000-348C
Radium 228	7.65	8.71	0.96	81	114	(61 - 139)	
Spk 2	7.65	8.43	0.92	85	110	(61 - 139)	3 %RPD
	Batch #:	8242348				Analysis Date: 09/10/08	
<hr/>							

NOTE(S)

Calculations are performed before rounding to avoid round-off error in calculated results

## DUPLICATE EVALUATION REPORT

## Radiochemistry

Client Lot ID: F8H290240  
 Matrix: WATER

Date Sampled: 08/21/08  
 Date Received: 08/28/08

Parameter	SAMPLE Result	Total Uncert. (2 $\sigma$ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2 $\sigma$ +/-)	% Yld	QC Sample ID Precision
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F8H280256-003
Gross Alpha	4.0	2.1		2.7 U	2.0		42 %RPD
	Batch #:	8246173	(Sample)	8246173	(Duplicate)		
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F8H290219-001
Tritium	5210	500		5070	480		3 %RPD
	Batch #:	8246079	(Sample)	8246079	(Duplicate)		

## NOTE(S)

Data are incomplete without the case narrative.  
 Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

CRH  
4485

## SUBCONTRACT ORDER

TestAmerica Ontario

CRH0933

SENDING LABORATORY:

TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa Cunningham  
Client: Layne Christensen

RECEIVING LABORATORY:

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045  
Phone: (314) 298-8566  
Fax: xxx  
Project Location: California  
Receipt Temperature: °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price Surch	Comments
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Sample ID: CRH0933-01

Water

Sampled: 08/25/08 08:30

Gross Alpha-O	pCi/L	09/08/08	08/25/09 08:30	\$50.00	0%
Radium 226-O	pCi/L	09/08/08	08/25/09 08:30	\$120.00	0%
Radium 228-O	pCi/L	09/08/08	08/25/09 08:30	\$180.00	0%
Tritium-O	pCi/L	09/08/08	08/25/09 08:30	\$70.00	0%

Containers Supplied:

500 mL poly w/ Nitric Acid (AA)	500 mL poly w/ Nitric Acid (AB)	500 mL poly w/ Nitric Acid (AC)	500 mL poly w/ Nitric Acid (AD)	500 mL poly w/ Nitric Acid (AE)
500 mL poly w/ Nitric Acid (AF)	1 Liter Poly w/ Nitric Acid (AK)	500 mL Glass (AO)		

Released By Christine 8/26/08 1405  
Date/Time

Received By Angela Boon 8-29-08 13:15  
Date/Time



Del Mar Analytical

Providing Quality Environmental Laboratory Services

2852 Allon Avenue, Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228  
1014 East Cooley Drive, Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
9484 Chesapeake Dr., Ste. 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689  
9830 South 51st, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
2520 East Sunset, #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

DRINKING WATER CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name: <u>LAYNE CHRISTENSEN COMPANY</u>		P.O./Project Name: <u>HARPER LAKE - 27-1643, 02.20</u>	
Address: <u>11001 FERNANDA AVE</u>		Project Manager: <u>VICTOR JACKOWICH</u>	
City: <u>FONTANA</u>		Compliance Sample: Yes <input type="checkbox"/> No <input type="checkbox"/> POE #: _____	
Tel: <u>(909) 350-2833</u>		Fax: <u>(909) 390-6097</u> Data to state's database? Yes <input type="checkbox"/> No <input type="checkbox"/> PWS ID#: _____	
Sampler(s) Name & Signature: <u>VICTOR JACKOWICH</u>		Samples acidified after dechlorination? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Sample I.D.	Date Sampled	Time	Matrix (see Matrix Table)
<u>RYKER-WEIL-B2</u>	<u>GW</u>	<u>9:25</u>	<u>0830</u>
Matrix Types			
DW - Drinking Water			
SW - Surface Water			
RW - Raw Water (Source)			
GW - Groundwater			
RW - Recreational Water			
TW - Treated Water (Point of Entry)			
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-25-08/0853</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-25-08/1146</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: _____	
Received by: <u>[Signature]</u>		Date/Time: <u>8-25-08/0853</u>	
Received by: <u>[Signature]</u>		Date/Time: <u>8-25-08/1146</u>	
Received in Lab by: _____		Date/Time: _____	
Remarks: <u>ATTN: MELISSA CUNNINGHAM</u>		Sample Integrity: Temp: _____ On Ice: <input checked="" type="checkbox"/>	
Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days. All work is subject to Del Mar Analytical's terms and conditions unless previously agreed to in writing.			




 Lot #(s): F8H290240  
 - 4485 - 241  
246

 Client: TA-Ontario COC/RFA No: CRH0962/0960/0933 Date: 8-29-08  
 Quote No: 75334 Initiated By: AB Time: 13:11

## Shipping Information

 Shipper Name: FE Multiple Packages Y (N)  
 Shipping # (s):\* 1(961201a)2661313 10017014 Sample Temperature (s):\*\*  
 1. Ambient 6. \_\_\_\_\_  
 2. \_\_\_\_\_ 7. \_\_\_\_\_  
 3. \_\_\_\_\_ 8. \_\_\_\_\_  
 4. \_\_\_\_\_ 9. \_\_\_\_\_  
 5. \_\_\_\_\_ 10. \_\_\_\_\_

\*Numbered shipping lines correspond to Numbered Sample Temp lines

\*\*Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. Y <u>(N)</u>	Are there custody seals present on the cooler?	8. <u>(Y)</u> N	Are there custody seals present on bottles?
2. Y N <u>(N/A)</u>	Do custody seals on cooler appear to be tampered with?	9. Y N <u>(N/A)</u>	Do custody seals on bottles appear to be tampered with?
3. <u>(Y)</u> N	Were contents of cooler frisked after opening, but before unpacking?	10. Y N <u>(N/A)</u>	Was sample received with proper pH? (If not, make note below)
4. <u>(Y)</u> N	Sample received with Chain of Custody?	11. <u>(Y)</u> N	If N/A- Was pH taken by original TestAmerica lab?
5. <u>(Y)</u> N <u>(N/A)</u>	Does the Chain of Custody match sample ID's on the container(s)?	12. <u>(Y)</u> N	Sample received in proper containers?
6. Y <u>(N)</u>	Was sample received broken?	13. Y N <u>(N/A)</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7. <u>(Y)</u> N	Is sample volume sufficient for analysis?	14. <u>(Y)</u> N	Was Internal <u>CO2</u> /Workshare received?

<sup>1</sup> For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

## Corrective Action:

☐ Client Contact Name: \_\_\_\_\_ Informed by: \_\_\_\_\_  
☐ Sample(s) processed "as is"  
☐ Sample(s) on hold until: \_\_\_\_\_ If released, notify: \_\_\_\_\_  
 Project Management Review: Jerry Smith Date: 9-1-08

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.



THE LEADER IN ENVIRONMENTAL TESTING

September 4, 2008

**TestAmerica Project Number: G8H270279**

PO/Contract: CRH0933

Melissa Cunningham  
TestAmerica Analytical Testing  
1014 E Cooley Drive,  
Suite A  
Colton, CA 92324

Dear Ms. Cunningham,

This report contains the analytical results for the sample received under chain of custody by TestAmerica on August 27, 2008. This sample is associated with your CRH0933 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4383.

Sincerely,

David R. Alltucker  
Project Manager

## Table of Contents

### TestAmerica West Sacramento Project Number G8H270279

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 1613B, 2,3,7,8-TCDD

Sample: 1

Sample Data Sheet

Method Blank Report

Laboratory QC Reports

## **Case Narrative**

### **TestAmerica West Sacramento Project Number G8H270279**

There were no anomalies associated with this project.

## TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0616	Oregon*	CA 200005
Arkansas	04-067-0	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014002
Colorado	NA	Texas	TX 270-2004A
Connecticut	PH-0691	Utah*	QUANI
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C087
Hawaii	NA	West Virginia	9930C, 334
Kansas*	E10375	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 9/21/07

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary

### TestAmerica West Sacramento Project Number G8H270279

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
KVWQF	1	CRH0933-01	8/25/2008 08:30 AM	8/27/2008 09:30 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## SUBCONTRACT ORDER

TestAmerica Ontario

CRH0933

SENDING LABORATORY:

TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa Cunningham  
Client: Layne Christensen

RECEIVING LABORATORY:

TestAmerica West Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Phone: (916) 373-5600  
Fax: (916) 372-7768  
Project Location: California  
Receipt Temperature: 2 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Interlab Price Surch	Comments
----------	-------	-----	---------	----------------------	----------

Sample ID: CRH0933-01      Water      Sampled: 08/25/08 08:30

1613B - 2,3,7,8-TCDD CA D pg/l	09/08/08	08/25/09 08:30	\$220.00	0%
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Containers Supplied:

1 L Amber (AM)	1 L Amber (AN)
----------------	----------------

Released By

Date/Time

Received By

Date/Time

Released By

Date/Time

Received By

Date/Time

TestAmerica West Sacramento (916) 373 - 5600

Page 1 of 1  
6 of 15





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9484 Chesapeake Dr., Ste. 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689  
9830 South 51st, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
2520 East Sunset, #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

DRINKING WATER CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name: <u>LAYNE CHRISTENSEN Company</u>		P.O./Project Name: <u>Harper Lake - 27-1643, 02.20</u>																					
Address: <u>11001 Eriwanda Ave</u>		Project Manager: <u>Victor Jackowich</u>																					
City: <u>Fontana</u>		Compliance Sample: Yes <input type="checkbox"/> No <input type="checkbox"/>																					
State: <u>CA</u>		POE #:																					
Tel: <u>(909) 390-2833</u>		Fax: <u>(909) 390-6047</u>																					
Data to state's database? Yes <input type="checkbox"/> No <input type="checkbox"/>		PWS ID#:																					
Sampler(s) Name & Signature: <u>Victor Jackowich</u>		Samples acidified after dechlorination? Yes <input type="checkbox"/> No <input type="checkbox"/>																					
Sample I.D.	Matrix (see Matrix Table)	Date Sampled	Time	Number of Containers	Volatiles Reg. <input type="checkbox"/> UnReg. <input type="checkbox"/> 524.2	Trihalomethanes Only 524.2	Semivolatiles Reg. <input type="checkbox"/> UnReg. <input type="checkbox"/> 525.2	EDB / DBCP / TCP 504.1	Pesticides and PCBs 505 <input type="checkbox"/> 508.1 <input type="checkbox"/>	Chlorinated Acids 515.3	Carbamates 531.1	Glyphosate 547	Endothal 548.1	Diquat / Paraquat 549.2	Coliform, Total <input type="checkbox"/> Fecal <input type="checkbox"/>	Heterotrophic Plate Count (HPC)	Metals (Specify)	General Minerals (see fee schedule)	General Physical (see fee schedule)	Inorganic Chemicals (see fee schedule)	Aluminum <input type="checkbox"/> Antimony <input type="checkbox"/> Arsenic <input type="checkbox"/> Barium <input type="checkbox"/> Beryllium <input type="checkbox"/> Boron <input type="checkbox"/> Cadmium <input type="checkbox"/> Calcium <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Iron <input type="checkbox"/> Lead <input type="checkbox"/> Magnesium <input type="checkbox"/> Manganese <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Polonium <input type="checkbox"/> Selenium <input type="checkbox"/> Silver <input type="checkbox"/> Sodium <input type="checkbox"/> Thallium <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc <input type="checkbox"/> other: <input type="checkbox"/>		
<u>RYKER-Well-52</u>	<u>GW</u>	<u>9/25</u>	<u>0930</u>																				
Matrix Types		Relinquished by:	Date/Time:	Received by:	Date/Time:	Turnaround Time* (check one)																	
DW - Drinking Water		<u>[Signature]</u>	<u>8-25-08/0853</u>	<u>[Signature]</u>	<u>8-25-08/0853</u>	Normal <input type="checkbox"/> 7 day <input type="checkbox"/>																	
SW - Surface Water		Relinquished by:	Date/Time:	Received by:	Date/Time:	72 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/>																	
RW - Raw Water (Source)		<u>[Signature]</u>	<u>8-25-08/1146</u>	<u>[Signature]</u>	<u>8/25/08</u>	24 Hours <input type="checkbox"/> Immediate <input type="checkbox"/>																	
GW - Groundwater		Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	*Surcharges may be applied for remaining hold time <48 hours.																	
RW - Recreational Water						Sample Integrity: <input type="checkbox"/> On Ice: <input type="checkbox"/>																	
TW - Treated Water (Point of Entry)						Intact: <input type="checkbox"/>																	
Remarks: <u>ATTN: Melissa Cunningham</u>																							

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days. All work is subject to Del Mar Analytical's terms and conditions unless previously agreed to in writing.

091

3.5



CLIENT TAL ontario PM DA LOG # 53835

LOT# (QUANTIMS ID) G8H270279 QUOTE# 74020 LOCATION W7B

DATE RECEIVED 8/27/08 TIME RECEIVED 0930 Initials av Date 8/27/08

DELIVERED BY ☒ FEDEX ☐ CA OVERNIGHT ☐ CLIENT  
☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL  
☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS  
☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER  
☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☒ N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S) ☒ TAL ☐ CLIENT ☐ N/A

TEMPERATURE RECORD (IN °C) IR 4 ☐ 5 ☒ OTHER \_\_\_\_\_

COC #(S) \_\_\_\_\_

TEMPERATURE BLANK Observed: 1 Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE

Observed: 1 Average: 1 Corrected Average: 2

COLLECTOR'S NAME: ☐ Verified from COC ☒ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A

LABELED BY \_\_\_\_\_

LABELS CHECKED BY \_\_\_\_\_

PEER REVIEW ☒ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☒ N/A

VOA-ENCORES ☒ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A

☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C - 6 °C)\* ☒ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE.

**Bottle Lot Inventory**

Lot

ID:

G8H270279

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB	2																			
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

# WATER, 1613B, 2,3,7,8-TCDD

TestAmerica Ontario

Client Sample ID: CRH0933-01

Trace Level Organic Compounds

Lot-Sample #....: G8H270279-001    Work Order #....: KVVQF1AA    Matrix.....: WATER  
 Date Sampled...: 08/25/08    Date Received...: 08/27/08  
 Prep Date.....: 08/29/08    Analysis Date...: 09/03/08  
 Prep Batch #....: 8242295  
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra
INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS		
13C-2,3,7,8-TCDD	50	(25 - 141)		

## QC DATA ASSOCIATION SUMMARY

G8H270279

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL</u> <u>METHOD</u>	<u>LEACH</u> <u>BATCH #</u>	<u>PREP</u> <u>BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B-Tetra		8242295	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G8H270279      Work Order #...: KV2MF1AA      Matrix.....: WATER  
 MB Lot-Sample #: G8H290000-295  
 Prep Date.....: 08/29/08  
 Analysis Date...: 09/03/08      Prep Batch #...: 8242295  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

<u>INTERNAL STANDARDS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C-2,3,7,8-TCDD	50	(25 - 141)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE DATA REPORT

## Trace Level Organic Compounds

Client Lot #...: G8H270279      Work Order #...: KV2MF1AC      Matrix.....: WATER  
 LCS Lot-Sample#: G8H290000-295  
 Prep Date.....: 08/29/08      Analysis Date...: 09/03/08  
 Prep Batch #...: 8242295  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	200	164	pg/L	82	EPA-5 1613B-T

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	49	(25 - 141)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## Trace Level Organic Compounds

Client Lot #...: G8H270279      Work Order #...: KV2MF1AC      Matrix.....: WATER  
 LCS Lot-Sample#: G8H290000-295  
 Prep Date.....: 08/29/08      Analysis Date...: 09/03/08  
 Prep Batch #...: 8242295  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	82	(73 - 146)	EPA-5 1613B-Tetras

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	49	(25 - 141)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters







## LABORATORY REPORT

Prepared For: Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project: Riverside Well  
Harper Lake

Sampled: 11/26/08  
Received: 11/26/08  
Issued: 12/04/08 16:01

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This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID  
CRK1051-01

CLIENT ID  
Ryken Well S3

MATRIX  
Water

Reviewed By:



TestAmerica Ontario  
Melissa Cunningham  
Project Manager

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK1051-01 (Ryken Well S3 - Water)								pH
Reporting Units: Color Units								
Color	SM2120B	C8K2708	1	ND	1	11/27/2008	11/27/2008	

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Project Manager

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Layne Christensen  
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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK1051-01 (Ryken Well S3 - Water)								
Reporting Units: mg/l								
Silicon	EPA 6010B	8L02130	0.050	20	1	12/2/2008	12/3/2008	
Strontium	EPA 200.7	8L02125	0.020	2.5	1	12/2/2008	12/3/2008	
Mercury	EPA 245.1	8L03062	0.00020	ND	1	12/3/2008	12/3/2008	
Sample ID: CRK1051-01 (Ryken Well S3 - Water)								
Reporting Units: mg/l as Silica								
Silicon	EPA 200.7	8L02125	0.11	43	1	12/2/2008	12/3/2008	

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Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK1051-01 (Ryken Well S3 - Water)								
Reporting Units: mg/l								
Carbon Dioxide	SM4500-CO2 C	8L01066	2.0	3.5	1	11/28/2008	11/28/2008	HFT
Chromium VI	EPA 218.6	8K26129	0.0010	0.0035	1	11/26/2008	11/26/2008	
Ammonia-N	EPA 350.3	8L02142	0.50	ND	1	12/2/2008	12/2/2008	
Biochemical Oxygen Demand	SM5210B	8K28050	2.0	ND	1	11/28/2008	12/3/2008	
Ferrous Iron	SM 3500-Fe D	8K27005	0.10	ND	1	11/27/2008	11/27/2008	HFT
Phosphate (PO4)	EPA 365.3	8L02120	0.15	0.18	1	12/2/2008	12/2/2008	
Sulfate	EPA 300.0	8K28058	10	410	20	11/28/2008	11/28/2008	
Total Organic Carbon	SM5310C	8K28064	0.10	0.76	1	11/28/2008	11/28/2008	
Total Suspended Solids	SM 2540D	8L01133	10	ND	1	12/1/2008	12/1/2008	

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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Ryken Well S3 (CRK1051-01) - Water					
EPA 218.6	1	11/26/2008 09:08	11/26/2008 14:03	11/26/2008 21:25	11/26/2008 21:25
SM 3500-Fe D	1	11/26/2008 09:08	11/26/2008 14:03	11/27/2008 10:45	11/27/2008 11:00
SM2120B	2	11/26/2008 09:08	11/26/2008 14:03	11/27/2008 10:15	11/27/2008 10:15
SM4500-CO2 C	1	11/26/2008 09:08	11/26/2008 14:03	11/28/2008 11:30	11/28/2008 11:30
SM5210B	2	11/26/2008 09:08	11/26/2008 14:03	11/28/2008 08:18	12/03/2008 09:30

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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: C8K2708 Extracted: 11/27/08</u>									
Duplicate Analyzed: 11/27/2008 (C8K2708-DUP1)									
Color	ND	1	Color Units		ND			20	pH

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Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8L02125 Extracted: 12/02/08</b>										
<b>Blank Analyzed: 12/03/2008 (8L02125-BLK1)</b>										
Silicon	ND	0.11	mg/l as Silica							
Strontium	ND	0.020	mg/l							
<b>LCS Analyzed: 12/03/2008 (8L02125-BS1)</b>										
Silicon	5.04	0.11	mg/l as Silica	5.35		94	85-115			
Strontium	0.494	0.020	mg/l	0.500		99	85-115			
<b>Matrix Spike Analyzed: 12/03/2008 (8L02125-MS1)</b>					<b>Source: CRK1051-01</b>					
Silicon	47.6	0.11	mg/l as Silica	5.35	43.0	86	70-130			
Strontium	2.98	0.020	mg/l	0.500	2.46	105	70-130			
<b>Matrix Spike Dup Analyzed: 12/03/2008 (8L02125-MSD1)</b>					<b>Source: CRK1051-01</b>					
Silicon	48.4	0.11	mg/l as Silica	5.35	43.0	100	70-130	2	20	
Strontium	3.02	0.020	mg/l	0.500	2.46	112	70-130	1	20	
<b>Batch: 8L02130 Extracted: 12/02/08</b>										
<b>Blank Analyzed: 12/03/2008 (8L02130-BLK1)</b>										
Silicon	ND	0.050	mg/l							
<b>LCS Analyzed: 12/03/2008 (8L02130-BS1)</b>										
Silicon	4.78	0.050	mg/l	5.00		96	80-120			
<b>Matrix Spike Analyzed: 12/03/2008 (8L02130-MS1)</b>					<b>Source: IRK2476-01RE1</b>					
Silicon	11.2	0.050	mg/l	5.00	6.82	88	75-125			
<b>Matrix Spike Dup Analyzed: 12/03/2008 (8L02130-MSD1)</b>					<b>Source: IRK2476-01RE1</b>					
Silicon	11.1	0.050	mg/l	5.00	6.82	87	75-125	1	20	

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Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8L03062 Extracted: 12/03/08</b>									
<b>Blank Analyzed: 12/03/2008 (8L03062-BLK1)</b>									
Mercury	ND	0.00020	mg/l						
<b>LCS Analyzed: 12/03/2008 (8L03062-BS1)</b>									
Mercury	0.00810	0.00020	mg/l	0.00800		101	85-115		
<b>Matrix Spike Analyzed: 12/03/2008 (8L03062-MS1)</b>									
Mercury	0.00824	0.00020	mg/l	0.00800	0.000665	95	70-130		
<b>Matrix Spike Dup Analyzed: 12/03/2008 (8L03062-MSD1)</b>									
Mercury	0.00828	0.00020	mg/l	0.00800	0.000665	95	70-130	1	20

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Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K26129 Extracted: 11/26/08</b>										
<b>Blank Analyzed: 11/26/2008 (8K26129-BLK1)</b>										
Chromium VI	ND	0.0010	mg/l							
<b>LCS Analyzed: 11/26/2008 (8K26129-BS1)</b>										
Chromium VI	0.0480	0.0010	mg/l	0.0500		96	90-110			
<b>Matrix Spike Analyzed: 11/26/2008 (8K26129-MS1)</b>										
Chromium VI	0.0568	0.0010	mg/l	0.0500	0.00354	107	90-110			
<b>Matrix Spike Dup Analyzed: 11/26/2008 (8K26129-MSD1)</b>										
Chromium VI	0.0543	0.0010	mg/l	0.0500	0.00354	102	90-110	5	10	
<b>Batch: 8K27005 Extracted: 11/27/08</b>										
<b>Blank Analyzed: 11/27/2008 (8K27005-BLK1)</b>										
Ferrous Iron	ND	0.10	mg/l							
<b>LCS Analyzed: 11/27/2008 (8K27005-BS1)</b>										
Ferrous Iron	5.00	0.10	mg/l	5.00		100	80-120			
<b>Duplicate Analyzed: 11/27/2008 (8K27005-DUP1)</b>										
Ferrous Iron	ND	0.10	mg/l		ND				20	HFT
<b>Batch: 8K28050 Extracted: 11/28/08</b>										
<b>Blank Analyzed: 12/03/2008 (8K28050-BLK1)</b>										
Biochemical Oxygen Demand	ND	2.0	mg/l							

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Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K28050 Extracted: 11/28/08</b>										
<b>LCS Analyzed: 12/03/2008 (8K28050-BS1)</b>										
Biochemical Oxygen Demand	204	100	mg/l	198		103	85-115			
<b>LCS Dup Analyzed: 12/03/2008 (8K28050-BS1)</b>										
Biochemical Oxygen Demand	204	100	mg/l	198		103	85-115	0	20	
<b>Batch: 8K28058 Extracted: 11/28/08</b>										
<b>Blank Analyzed: 11/28/2008 (8K28058-BLK1)</b>										
Sulfate	ND	0.50	mg/l							
<b>LCS Analyzed: 11/28/2008 (8K28058-BS1)</b>										
Sulfate	10.5	0.50	mg/l	10.0		105	90-110			M-3
<b>Matrix Spike Analyzed: 11/28/2008 (8K28058-MS1)</b>										
Sulfate	106	5.0	mg/l	100	Source: IRK2841-01 2.35	104	80-120			
<b>Matrix Spike Dup Analyzed: 11/28/2008 (8K28058-MSD1)</b>										
Sulfate	108	5.0	mg/l	100	Source: IRK2841-01 2.35	105	80-120	1	20	
<b>Batch: 8K28064 Extracted: 11/28/08</b>										
<b>Blank Analyzed: 11/28/2008 (8K28064-BLK1)</b>										
Total Organic Carbon	ND	0.10	mg/l							
<b>LCS Analyzed: 11/28/2008 (8K28064-BS1)</b>										
Total Organic Carbon	9.83	0.10	mg/l	10.0		98	90-110			

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11001 Etiwanda Avenue  
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Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K28064 Extracted: 11/28/08</b>										
<b>Matrix Spike Analyzed: 11/28/2008 (8K28064-MS1)</b>					<b>Source: IRK2509-01</b>					
Total Organic Carbon	11.1	0.10	mg/l	10.0	0.426	107	80-120			
<b>Matrix Spike Dup Analyzed: 11/28/2008 (8K28064-MSD1)</b>					<b>Source: IRK2509-01</b>					
Total Organic Carbon	11.1	0.10	mg/l	10.0	0.426	106	80-120	1	20	
<b>Batch: 8L01066 Extracted: 11/28/08</b>										
<b>Duplicate Analyzed: 11/28/2008 (8L01066-DUP1)</b>					<b>Source: CRK1051-01</b>					
Carbon Dioxide	3.52	2.0	mg/l		3.52			0	20	HFT
<b>Batch: 8L01133 Extracted: 12/01/08</b>										
<b>Blank Analyzed: 12/01/2008 (8L01133-BLK1)</b>										
Total Suspended Solids	ND	10	mg/l							
<b>LCS Analyzed: 12/01/2008 (8L01133-BS1)</b>										
Total Suspended Solids	993	10	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 12/01/2008 (8L01133-DUP1)</b>					<b>Source: IRK2766-01</b>					
Total Suspended Solids	35.0	10	mg/l		35.0			0	10	
<b>Batch: 8L02120 Extracted: 12/02/08</b>										
<b>Blank Analyzed: 12/02/2008 (8L02120-BLK1)</b>										
Phosphate (PO4)	ND	0.075	mg/l							

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CRK1051 <Page 11 of 15>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8L02120 Extracted: 12/02/08</b>										
<b>LCS Analyzed: 12/02/2008 (8L02120-BS1)</b>										
Phosphate (PO4)	1.61	0.075	mg/l	1.54		105	80-120			
<b>Matrix Spike Analyzed: 12/02/2008 (8L02120-MS1)</b>										
Phosphate (PO4)	2.99	0.15	mg/l	3.07	0.222	90	75-125			
<b>Matrix Spike Dup Analyzed: 12/02/2008 (8L02120-MSD1)</b>										
Phosphate (PO4)	2.87	0.15	mg/l	3.07	0.222	86	75-125	4	20	
<b>Batch: 8L02142 Extracted: 12/02/08</b>										
<b>Blank Analyzed: 12/02/2008 (8L02142-BLK1)</b>										
Ammonia-N	ND	0.50	mg/l							
<b>LCS Analyzed: 12/02/2008 (8L02142-BS1)</b>										
Ammonia-N	1.04	0.50	mg/l	1.00		104	85-115			
<b>Matrix Spike Analyzed: 12/02/2008 (8L02142-MS1)</b>										
Ammonia-N	1.99	0.50	mg/l	2.00	ND	100	75-125			
<b>Matrix Spike Dup Analyzed: 12/02/2008 (8L02142-MSD1)</b>										
Ammonia-N	1.99	0.50	mg/l	2.00	ND	100	75-125	0	15	

TestAmerica Ontario

Melissa Cunningham  
Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## DATA QUALIFIERS AND DEFINITIONS

**HFT** The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.

**M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).

**pH** pH = 7.5

**ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

**RPD** Relative Percent Difference

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Melissa Cunningham  
Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

## Certification Summary

### TestAmerica Ontario

Method	Matrix	Nelac	California
SM2120B	Water	N/A	N/A

### Subcontracted Laboratories

### TestAmerica Ontario

Melissa Cunningham  
Project Manager

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1014 E. Cooley Dr. Ste A, Colton, CA 92324 (909) 370-4667 Fax: (909) 370-1046

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: Riverside Well  
Harper Lake  
Report Number: CRK1051

Sampled: 11/26/08  
Received: 11/26/08

**TestAmerica - Irvine, CA** *Nelac Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA-72*

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: EPA 200.7  
Samples: CRK1051-01

Method Performed: EPA 218.6  
Samples: CRK1051-01

Method Performed: EPA 245.1  
Samples: CRK1051-01

Method Performed: EPA 300.0  
Samples: CRK1051-01

Method Performed: EPA 350.3  
Samples: CRK1051-01

Method Performed: EPA 365.3  
Samples: CRK1051-01

Method Performed: EPA 6010B  
Samples: CRK1051-01

Method Performed: SM 2540D  
Samples: CRK1051-01

Method Performed: SM 3500-Fe D  
Samples: CRK1051-01

Method Performed: SM4500-CO2 C  
Samples: CRK1051-01

Method Performed: SM5210B  
Samples: CRK1051-01

Method Performed: SM5310C  
Samples: CRK1051-01

## TestAmerica Ontario

Melissa Cunningham  
Project Manager

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## SUBCONTRACT ORDER

TestAmerica Ontario

CRK1051

SENDING LABORATORY:

TestAmerica Ontario  
 1014 E. Cooley Dr, Ste A  
 Colton, CA 92324  
 Phone: (909) 370-4667  
 Fax: (909) 370-1046  
 Project Manager: Melissa Cunningham  
 Client: Layne Christensen

RECEIVING LABORATORY:

TestAmerica Irvine  
 17461 Derian Avenue, Suite 100  
 Irvine, CA 92614  
 Phone: (949) 261-1022  
 Fax: (949) 261-1228  
 Project Location: CA - CALIFORNIA  
 Receipt Temperature: °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
----------	-------	-----	---------	----------------	-------	----------

Sample ID: CRK1051-01

Water

Sampled: 11/26/08 13:05

Ammonia-N, ISE 350.3 - Out	mg/l	12/04/08	12/24/08 13:05	\$21.00	25%	
BOD - Out	mg/l	12/04/08	11/28/08 13:05	\$65.00	25%	
Carbon Dioxide	mg/l	12/04/08	11/27/08 13:05	\$25.00	25%	
Chromium VI - 218.6 CA DV	mg/l	12/04/08	11/27/08 13:05	\$150.00	25%	
Iron-Fe +2 (SM3500-Fe D)	%	12/04/08	12/03/08 13:05	\$21.00	25%	
Mercury - 200.8 CA DW	ug/l	12/04/08	05/25/09 13:05	\$40.00	25%	
Phosphate-365.3	mg/l	12/04/08	12/24/08 13:05	\$21.00	25%	
Silica - 200.7 CA DW	mg/l as Silica	12/04/08	05/25/09 13:05	\$18.00	25%	
Silicon-6010B	mg/l	12/04/08	05/25/09 13:05	\$18.00	25%	Dissolved
Strontium-200.7	mg/l	12/04/08	05/25/09 13:05	\$18.00	25%	
Sulfate - 300.0 CA DW	mg/l	12/04/08	12/24/08 13:05	\$21.00	25%	
TOC - SM5310C CA DW	mg/l	12/04/08	12/24/08 13:05	\$40.00	25%	
TSS - SM 2540 D	mg/l	12/04/08	12/03/08 13:05	\$20.00	25%	

Containers Supplied:

500 mL poly w/ Sulfuric Acid (A)	500 mL poly w/ Nitric Acid (C)	1 Liter Poly (D)	500 mL Poly (E)	250 mL Amber w/ Phosphoric Acid (F)
250 mL Amber (G)				

Released By

Date/Time

Received By

Date/Time

Released By

Date/Time

Received By

Date/Time

Page 1 of 1

**CHAIN OF CUSTODY FORM**

Page 1 of 1

Client Name: Layne Christensen Company		P.O./Project Name: Harper Lake - 27-1643	
Address: 11001 Ellwanda Ave		Project Manager: Tony Morgan	
City: Fontana	State: CA	Zip: 92337	POE #:
Tel: (909) 390-2833	Fax: (909) 390-6097	Data to state's database? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Sampler(s) Name & Signature: Darren E. Bobhart		PWS ID#:	
Sample I.D.	Date Sampled	Time	Matrix (see Matrix Table)
Ryken Well S3 GW 11/26	2008	0908	
Number of Containers		EC, Perchlorate, Density	
CAM Metals-6010B (mercury included)		8015 DRD/RO (Diesel range)	
8015 GRO (Gas range C4-C12)		C13C22/C23C32	
8260B/5030B		Total suspended solids	
X		Fe+2	
X		Phosphate	
X		Total S.L.C.A	
X		dissolved S.L.C.A	
X		Strontium	
X		Mercury	
X		TOC	
X		BOD5	
X		Color	
X		Sulfate	
X		NH4, CO3	
X		Hexavalent Chromium	
No		Aluminum	
No		Antimony	
No		Arsenic	
No		Barium	
No		Beryllium	
No		Boron	
No		Cadmium	
No		Calcium	
No		Chromium	
No		Copper	
No		Iron	
No		Lead	
No		Magnesium	
No		Manganese	
No		Mercury	
No		Nickel	
No		Potassium	
No		Selenium	
No		Silver	
No		Sodium	
No		Thallium	
No		Vanadium	
No		Zinc	
No		Other:	
Remarks: Need 5-day Around		Field temp 24.9°C	
		Field pH 7.35	
Relinquished by: Darren E. Bobhart		Date/Time: 11/26/08	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Matrix Types		Surround Time* (check one)	
DW - Drinking Water		Normal	
SW - Surface Water		72 Hours	
RW - Raw Water (Source)		24 Hours	
GW - Groundwater		Immediate	
TW - Treated Water (Point of Entry)		*Surcharges may be applied for remaining hold time <48 hours	
		Sample Integrity: Temp. 3	
		Intact: X On be: 3	

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.

## TestAmerica TotalAccess

Work Order: CRK1051 (11/26/2008) ONT

Go

Results: 01 (Ryken Well S3)

&gt;

Invoice: Invoice Search

Go

[Home](#) [Preferences](#) [Search](#) [Downloads](#) [Project Info](#) [Analysis Info](#) [Analyte Trends](#) [Budget](#) [Help](#) [Logout](#)

Work Order Info

User: dboshart@laynechristensen.com

Ontario Laboratory  
Work Order CRK1051

Riverside Well

Project: Riverside Well

Project Number: Harper Lake

## Report To:

Tony Morgan  
Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Phone: (909) 390-2833  
Fax: (909) 390-6097

## Invoice To:

Steve Costello  
Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Phone: (909) 390-2833  
Fax: (909) 390-6097

Date Due: 12/4/2008 5:00:00 PM Pacific  
Status: Received  
Status Date: 11/26/2008 4:39:31 PM Pacific

Laboratory Project Manager: Melissa Cunningham  
Date Received: 11/26/2008 2:03:00 PM Pacific  
Date Logged: 11/26/2008 2:26:00 PM Pacific

Cooler Temp. Received (Deg. C)  
Default Cooler 2.3

Downloads & Deliverables  
COC crk1051.pdf 12/1/2008 11:15:08 AM

[Sample Table](#) [Sample Grid](#) [Sample Results](#)

Analysis (click sample to view results)	Expires	Status	Status Date
Ryken Well S3 (Water) 01	Sampled: 11/26/2008 9:08:00 AM Pacific		
Ammonia-N, ISE 350.3 - Out	12/24/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
BOD - Out	11/28/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Carbon Dioxide	11/27/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Chromium VI - 218.6 CA DW	11/27/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Color - SM2120B CA DW	11/28/2008 9:08:00 AM Pacific	Reviewed	12/1/2008 10:18:14 AM Pacific
Iron-Fe +2 (SM3500-Fe D)	12/3/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Mercury - 200.8 CA DW	5/25/2009 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Phosphate-365.3	12/24/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Silica - 200.7 CA DW	5/25/2009 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Silicon-6010B	5/25/2009 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Strontium-200.7	5/25/2009 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
Sulfate - 300.0 CA DW	12/24/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
TOC - SM5310C CA DW	12/24/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific
TSS - SM 2540 D	12/3/2008 9:08:00 AM Pacific	Subbed to: TestAmerica Irvine	11/26/2008 2:56:07 PM Pacific

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## LABORATORY REPORT

Prepared For: Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project: \_Standard Pricing  
\_Standard Pricing

Sampled: 11/05/08  
Received: 11/05/08  
Issued: 11/29/08 21:02

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 8°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

#### LABORATORY ID

CRK0176-01

#### CLIENT ID

Wet Lands Supply Well

#### MATRIX

Water

Reviewed By:



TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Benzene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Bromodichloromethane	EPA 524.2	C8K1402	1.0	ND	1	11/14/2008	11/14/2008	
Bromoform	EPA 524.2	C8K1402	1.0	ND	1	11/14/2008	11/14/2008	
Carbon tetrachloride	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Chlorobenzene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Chloroform	EPA 524.2	C8K1402	1.0	ND	1	11/14/2008	11/14/2008	
Dibromochloromethane	EPA 524.2	C8K1402	1.0	ND	1	11/14/2008	11/14/2008	
1,2-Dichlorobenzene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,4-Dichlorobenzene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,1-Dichloroethane	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,2-Dichloroethane	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,1-Dichloroethene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
cis-1,2-Dichloroethene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
trans-1,2-Dichloroethene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,2-Dichloropropane	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
cis-1,3-Dichloropropene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
trans-1,3-Dichloropropene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,3-Dichloropropene, Total	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Ethylbenzene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Methylene chloride	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Styrene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,1,2,2-Tetrachloroethane	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Tetrachloroethene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Toluene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,2,4-Trichlorobenzene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,1,1-Trichloroethane	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
1,1,2-Trichloroethane	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Trichloroethene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Trichlorofluoromethane (Freon 11)	EPA 524.2	C8K1402	5.0	ND	1	11/14/2008	11/14/2008	
Trichlorotrifluoroethane (Freon 113)	EPA 524.2	C8K1402	10	ND	1	11/14/2008	11/14/2008	
Vinyl chloride	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
m,p-Xylenes	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
o-Xylene	EPA 524.2	C8K1402	0.50	ND	1	11/14/2008	11/14/2008	
Xylenes, Total	EPA 524.2	C8K1402	1.0	ND	1	11/14/2008	11/14/2008	
Methyl-tert-butyl Ether (MTBE)	EPA 524.2	C8K1402	3.0	ND	1	11/14/2008	11/14/2008	
Trihalomethanes, Total	EPA 524.2	C8K1402	1.0	<4.0	1	11/14/2008	11/14/2008	
Surrogate: 4-Bromofluorobenzene (70-130%)				73 %				
Surrogate: 1,2-Dichlorobenzene-d4 (70-130%)				93 %				

### TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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CRK0176 <Page 2 of 51>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
1,2-Dibromoethane (EDB)	EPA 504.1	C8K1128	0.020	ND	0.99	11/11/2008	11/11/2008	
1,2-Dibromo-3-chloropropane	EPA 504.1	C8K1128	0.010	ND	0.99	11/11/2008	11/11/2008	
Surrogate: 4-Bromofluorobenzene (65-154%)				118 %				

### TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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CRK0176 <Page 3 of 51>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Atrazine	EPA 525.2	C8K1105	0.50	ND	0.99	11/11/2008	11/11/2008	
Simazine	EPA 525.2	C8K1105	1.0	ND	0.99	11/11/2008	11/11/2008	L
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)				110 %				
Surrogate: Triphenylphosphate (70-130%)				90 %				
Surrogate: Perylene-d12 (70-130%)				73 %				

### TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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CRK0176 <Page 4 of 51>



Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01RE1 (Wet Lands Supply Well - Water) - cont.								
Reporting Units: ug/l								
Di(2-ethylhexyl)adipate	EPA 525.2	C8K1105	5.0	ND	0.99	11/11/2008	11/14/2008	
Di(2-ethylhexyl)phthalate	EPA 525.2	C8K1105	3.0	ND	0.99	11/11/2008	11/14/2008	
Hexachlorobenzene	EPA 525.2	C8K1105	0.50	ND	0.99	11/11/2008	11/14/2008	
Hexachlorocyclopentadiene	EPA 525.2	C8K1105	1.0	ND	0.99	11/11/2008	11/14/2008	
Molinate	EPA 525.2	C8K1105	2.0	ND	0.99	11/11/2008	11/14/2008	
Thiobencarb	EPA 525.2	C8K1105	1.0	ND	0.99	11/11/2008	11/14/2008	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)				91 %				
Surrogate: Triphenylphosphate (70-130%)				92 %				
Surrogate: Perylene-d12 (70-130%)				80 %				

TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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CRK0176 <Page 5 of 51>

Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01RE2 (Wet Lands Supply Well - Water) - cont.								
Reporting Units: ug/l								
Benzo(a)pyrene	EPA 525.2	C8K1105	0.10	ND	0.99	11/11/2008	11/17/2008	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)				100 %				
Surrogate: Triphenylphosphate (70-130%)				100 %				
Surrogate: Perylene-d12 (70-130%)				86 %				

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Attention: Tony Morgan

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Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Alachlor	EPA 505	C8K0618	1.0	ND	0.985	11/6/2008	11/6/2008	C, L, M1
Endrin	EPA 505	C8K0618	0.10	ND	0.985	11/6/2008	11/6/2008	
Heptachlor	EPA 505	C8K0618	0.010	ND	0.985	11/6/2008	11/6/2008	C, L
Heptachlor epoxide	EPA 505	C8K0618	0.010	ND	0.985	11/6/2008	11/6/2008	
Lindane (gamma-BHC)	EPA 505	C8K0618	0.20	ND	0.985	11/6/2008	11/6/2008	
Methoxychlor	EPA 505	C8K0618	10	ND	0.985	11/6/2008	11/6/2008	
Chlordane	EPA 505	C8K0618	0.10	ND	0.985	11/6/2008	11/6/2008	
Toxaphene	EPA 505	C8K0618	1.0	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1016	EPA 505	C8K0618	0.26	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1221	EPA 505	C8K0618	0.19	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1232	EPA 505	C8K0618	0.23	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1242	EPA 505	C8K0618	0.26	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1248	EPA 505	C8K0618	0.30	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1254	EPA 505	C8K0618	0.33	ND	0.985	11/6/2008	11/6/2008	
Aroclor 1260	EPA 505	C8K0618	0.36	ND	0.985	11/6/2008	11/6/2008	
PCBs as Decachlorobiphenyl (DCB)	EPA 505	C8K0618	0.50	ND	0.985	11/6/2008	11/6/2008	

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## CHLORINATED ACIDS (EPA 515.4)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01RE1 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Bentazon	EPA 515.4	C8K1104	2.0	ND	1.01	11/7/2008	11/12/2008	C, L
2,4-D	EPA 515.4	C8K1104	10	ND	1.01	11/7/2008	11/12/2008	
Dalapon	EPA 515.4	C8K1104	10	ND	1.01	11/7/2008	11/12/2008	
Dacthal acid metabolites	EPA 515.4	C8K1104	1.0	ND	1.01	11/7/2008	11/13/2008	
Dicamba	EPA 515.4	C8K1104	1.5	ND	1.01	11/7/2008	11/12/2008	
Dinoseb	EPA 515.4	C8K1104	2.0	ND	1.01	11/7/2008	11/12/2008	
Pentachlorophenol	EPA 515.4	C8K1104	0.20	ND	1.01	11/7/2008	11/12/2008	
Picloram	EPA 515.4	C8K1104	1.0	ND	1.01	11/7/2008	11/12/2008	
2,4,5-TP (Silvex)	EPA 515.4	C8K1104	1.0	ND	1.01	11/7/2008	11/12/2008	
Surrogate: 2,4-Dichlorophenylacetic acid (70-130%)				94 %				

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## CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Aldicarb Sulfoxide	EPA 531.1	C8K0724	3.0	ND	1	11/7/2008	11/8/2008	
Aldicarb Sulfone	EPA 531.1	C8K0724	2.0	ND	1	11/7/2008	11/8/2008	
Oxamyl	EPA 531.1	C8K0724	20	ND	1	11/7/2008	11/8/2008	
Methomyl	EPA 531.1	C8K0724	2.0	ND	1	11/7/2008	11/8/2008	
3-Hydroxycarbofuran	EPA 531.1	C8K0724	3.0	ND	1	11/7/2008	11/8/2008	
Aldicarb	EPA 531.1	C8K0724	3.0	ND	1	11/7/2008	11/8/2008	
Carbofuran	EPA 531.1	C8K0724	5.0	ND	1	11/7/2008	11/8/2008	C, L
Carbaryl	EPA 531.1	C8K0724	5.0	ND	1	11/7/2008	11/8/2008	

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## ENDOTHALL (EPA 548.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Endothall	EPA 548.1	C8K0704	45	ND	1	11/7/2008	11/10/2008	

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## GLYPHOSATE (EPA 547)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Glyphosate	EPA 547	C8K0728	25	ND	1	11/9/2008	11/9/2008	

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## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								pH
Reporting Units: Color Units								
Color	SM2120B	C8K0631	1	ND	1	11/6/2008	11/6/2008	
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: NTU								
Turbidity	EPA 180.1	C8K0634	0.10	ND	1	11/6/2008	11/6/2008	
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								HFT
Reporting Units: pH Units								
pH	EPA 150.1	C8K0627	NA	7.4	1	11/6/2008	11/6/2008	
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: T.O.N.								
Odor	SM2150B	C8K0628	1.0	ND	1	11/6/2008	11/6/2008	

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## FIELD TESTS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: °C								
Temperature	Field Test	C8K1006	1.0	25	1	11/5/2008	11/10/2008	FT
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: pH Units								
pH	Field Test	C8K1006	NA	7.3	1	11/5/2008	11/10/2008	FT

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## METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: mg/l								
Hardness (as CaCO3)	SM2340B	[CALC]	0.33	920	1	11/10/2008	11/11/2008	
Calcium	EPA 200.7	8K10116	0.10	270	1	11/10/2008	11/11/2008	MHA
Iron	EPA 200.7	8K10116	0.040	0.25	1	11/10/2008	11/11/2008	
Magnesium	EPA 200.7	8K10116	0.020	59	1	11/10/2008	11/11/2008	MHA
Potassium	EPA 200.7	8K10116	0.50	7.9	1	11/10/2008	11/11/2008	
Sodium	EPA 200.7	8K10116	1.0	1400	2	11/10/2008	11/12/2008	
Strontium	EPA 200.7	8K10116	0.020	8.3	1	11/10/2008	11/11/2008	MHA
Mercury	EPA 245.1	8K10129	0.00020	ND	1	11/10/2008	11/10/2008	
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: mg/l as Silica								
Silicon	EPA 200.7	8K10116	0.11	35	1	11/10/2008	11/11/2008	
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: pCi/L								
Uranium pCi/L (CA)	EPA 200.8	8K10149	2.0	15	2	11/10/2008	11/12/2008	
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: ug/l								
Aluminum	EPA 200.8	8K10149	20	ND	2	11/10/2008	11/13/2008	
Antimony	EPA 200.8	8K10149	4.0	ND	2	11/10/2008	11/12/2008	RL1
Arsenic	EPA 200.8	8K10149	2.0	5.5	2	11/10/2008	11/12/2008	
Barium	EPA 200.8	8K10149	2.0	37	2	11/10/2008	11/13/2008	
Beryllium	EPA 200.8	8K10149	1.0	ND	2	11/10/2008	11/13/2008	RL1
Cadmium	EPA 200.8	8K10149	2.0	ND	2	11/10/2008	11/12/2008	RL1
Chromium	EPA 200.8	8K10149	4.0	ND	2	11/10/2008	11/12/2008	RL1
Copper	EPA 200.8	8K10149	4.0	7.1	2	11/10/2008	11/12/2008	
Lead	EPA 200.8	8K10149	2.0	3.4	2	11/10/2008	11/12/2008	
Manganese	EPA 200.8	8K10149	2.0	2.5	2	11/10/2008	11/12/2008	
Nickel	EPA 200.8	8K10149	4.0	ND	2	11/10/2008	11/12/2008	RL1
Selenium	EPA 200.8	8K10149	4.0	13	2	11/10/2008	11/12/2008	
Silver	EPA 200.8	8K10149	2.0	ND	2	11/10/2008	11/12/2008	C, RL1
Thallium	EPA 200.8	8K10149	2.0	ND	2	11/10/2008	11/12/2008	RL1
Zinc	EPA 200.8	8K10149	40	ND	2	11/10/2008	11/12/2008	RL1

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## INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: mg/l								
Carbon Dioxide	SM4500-CO2 C	8K06109	2.0	18	1	11/6/2008	11/6/2008	HFTa
Chromium VI	EPA 218.6	8K06100	0.0010	ND	1	11/6/2008	11/6/2008	H
Alkalinity as CaCO3	SM2320B	8K10074	2.0	130	1	11/10/2008	11/10/2008	
Bicarbonate Alkalinity as CaCO3	SM2320B	8K10074	2.0	130	1	11/10/2008	11/10/2008	
Carbonate Alkalinity as CaCO3	SM2320B	8K10074	2.0	ND	1	11/10/2008	11/10/2008	
Hydroxide Alkalinity as CaCO3	SM2320B	8K10074	2.0	ND	1	11/10/2008	11/10/2008	
Ammonia as Ammonium	EPA 350.3	8K11123	0.60	ND	1	11/11/2008	11/11/2008	
Biochemical Oxygen Demand	SM5210B	8K07085	2.0	ND	1	11/7/2008	11/12/2008	
Ferrous Iron	SM 3500-Fe D	8K07068	0.10	ND	1	11/7/2008	11/7/2008	HFTa
Chloride	EPA 300.0	8K06062	50	2400	100	11/6/2008	11/6/2008	
Total Cyanide	SM4500-CN-C,E	8K11096	0.025	ND	1	11/11/2008	11/11/2008	
Fluoride	SM 4500-F-C	8K07005	0.10	0.98	1	11/7/2008	11/7/2008	
Nitrate-N	EPA 300.0	8K06062	3.0	11	20	11/6/2008	11/6/2008	
Nitrate-NO3	EPA 300.0	8K06062	10	48	20	11/6/2008	11/6/2008	
Nitrite-N	EPA 300.0	8K06062	0.15	ND	1	11/6/2008	11/6/2008	
Nitrate/Nitrite-N	EPA 300.0	8K06062	5.2	11	20	11/6/2008	11/6/2008	
Phosphate (PO4)	EPA 365.3	8K13117	0.15	ND	1	11/13/2008	11/13/2008	
Sulfate	EPA 300.0	8K06062	10	930	20	11/6/2008	11/6/2008	
Surfactants (MBAS)	SM5540-C	8K06107	0.10	ND	1	11/6/2008	11/6/2008	
Total Dissolved Solids	SM2540C	8K10049	10	5500	1	11/10/2008	11/10/2008	
Total Organic Carbon	SM5310C	8K07008	0.10	0.47	1	11/7/2008	11/7/2008	
Total Suspended Solids	EPA 160.2	8K12108	10	10	1	11/12/2008	11/12/2008	

### Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)

Reporting Units: pH Units

pH	EPA 150.1	8K07071	0.100	7.63	1	11/7/2008	11/7/2008	HFTa
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### Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)

Reporting Units: ug/l

Perchlorate	EPA 314.0	8K14067	2.0	ND	1	11/14/2008	11/14/2008	
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### Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)

Reporting Units: umhos/cm @ 25C

Specific Conductance	SM2510B	8K10052	1.0	8200	1	11/10/2008	11/10/2008	
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Received: 11/05/08

## AGGRESSIVE INDEX

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: CRK0176-01 (Wet Lands Supply Well - Water)								
Reporting Units: SI Units								
Aggressive Index	Calc	8K14109	0.010	13	1	11/14/2008	11/14/2008	

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## SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
<b>Sample ID: Wet Lands Supply Well (CRK0176-01) - Water</b>					
EPA 150.1	0	11/05/2008 12:45	11/05/2008 16:09	11/07/2008 08:20	11/07/2008 08:20
<i>pH</i>				11/06/2008 10:35	11/06/2008 10:35
EPA 180.1	2	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 14:10	11/06/2008 14:10
EPA 218.6	1	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 12:55	11/06/2008 13:15
EPA 300.0	2	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 16:00	11/06/2008 17:29
<i>Nitrite-N</i>				11/06/2008 16:00	11/06/2008 17:16
SM 3500-Fe D	1	11/05/2008 12:45	11/05/2008 16:09	11/07/2008 08:37	11/07/2008 12:35
SM2120B	2	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 11:45	11/06/2008 11:45
SM2150B	1	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 09:35	11/06/2008 09:35
SM4500-CO2 C	1	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 13:48	11/06/2008 14:00
SM5210B	2	11/05/2008 12:45	11/05/2008 16:09	11/07/2008 10:57	11/12/2008 09:30
SM5540-C	2	11/05/2008 12:45	11/05/2008 16:09	11/06/2008 13:24	11/06/2008 22:08

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## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1402 Extracted: 11/14/08</b>										
<b>Blank Analyzed: 11/14/2008 (C8K1402-BLK1)</b>										
Benzene	ND	0.50	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroform	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Methylene chloride	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane (Freon 11)	ND	5.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	10	ug/l							
Vinyl chloride	ND	0.50	ug/l							
m,p-Xylenes	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	3.0	ug/l							
Trihalomethanes, Total	<4.0	1.0	ug/l							

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1402 Extracted: 11/14/08</b>										
<b>Blank Analyzed: 11/14/2008 (C8K1402-BLK1)</b>										
Surrogate: 4-Bromofluorobenzene	3.48		ug/l	5.00		70	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	3.92		ug/l	5.00		78	70-130			
<b>LCS Analyzed: 11/14/2008 (C8K1402-BS1)</b>										
Benzene	9.30	0.50	ug/l	10.0		93	70-130			
Bromodichloromethane	9.46	1.0	ug/l	10.0		95	70-130			
Bromoform	8.37	1.0	ug/l	10.0		84	70-130			
Carbon tetrachloride	9.47	0.50	ug/l	10.0		95	70-130			
Chlorobenzene	9.84	0.50	ug/l	10.0		98	70-130			
Chloroform	8.92	1.0	ug/l	10.0		89	70-130			
Dibromochloromethane	9.70	1.0	ug/l	10.0		97	70-130			
1,2-Dichlorobenzene	9.88	0.50	ug/l	10.0		99	70-130			
1,4-Dichlorobenzene	10.4	0.50	ug/l	10.0		104	70-130			
1,1-Dichloroethane	9.29	0.50	ug/l	10.0		93	70-130			
1,2-Dichloroethane	9.10	0.50	ug/l	10.0		91	70-130			
1,1-Dichloroethene	9.37	0.50	ug/l	10.0		94	70-130			
cis-1,2-Dichloroethene	9.27	0.50	ug/l	10.0		93	70-130			
trans-1,2-Dichloroethene	9.29	0.50	ug/l	10.0		93	70-130			
1,2-Dichloropropane	9.01	0.50	ug/l	10.0		90	70-130			
cis-1,3-Dichloropropene	9.36	0.50	ug/l	10.0		94	70-130			
trans-1,3-Dichloropropene	8.12	0.50	ug/l	10.0		81	70-130			
1,3-Dichloropropene, Total	17.5	0.50	ug/l	20.0		87	70-130			
Ethylbenzene	8.76	0.50	ug/l	10.0		88	70-130			
Methylene chloride	9.10	0.50	ug/l	10.0		91	70-130			
Styrene	8.69	0.50	ug/l	10.0		87	70-130			
1,1,2,2-Tetrachloroethane	9.63	0.50	ug/l	10.0		96	70-130			
Tetrachloroethene	9.25	0.50	ug/l	10.0		92	70-130			
Toluene	9.71	0.50	ug/l	10.0		97	70-130			
1,2,4-Trichlorobenzene	10.2	0.50	ug/l	10.0		102	70-130			
1,1,1-Trichloroethane	9.29	0.50	ug/l	10.0		93	70-130			
1,1,2-Trichloroethane	9.08	0.50	ug/l	10.0		91	70-130			
Trichloroethene	9.32	0.50	ug/l	10.0		93	70-130			
Trichlorofluoromethane (Freon 11)	9.14	5.0	ug/l	10.0		91	70-130			
Trichlorotrifluoroethane (Freon 113)	9.56	10	ug/l	10.0		96	70-130			
Vinyl chloride	9.63	0.50	ug/l	10.0		96	70-130			
m,p-Xylenes	17.6	0.50	ug/l	20.0		88	70-130			

## TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager



Layne Christensen  
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Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1402 Extracted: 11/14/08</b>										
<b>LCS Analyzed: 11/14/2008 (C8K1402-BS1)</b>										
o-Xylene	9.93	0.50	ug/l	10.0		99	70-130			
Xylenes, Total	27.5	1.0	ug/l	30.0		92	70-130			
Methyl-tert-butyl Ether (MTBE)	18.1	3.0	ug/l	20.0		91	70-130			
Trihalomethanes, Total	36.4	1.0	ug/l	40.0		91	70-130			
Surrogate: 4-Bromofluorobenzene	5.27		ug/l	5.00		105	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	5.40		ug/l	5.00		108	70-130			
<b>Matrix Spike Analyzed: 11/14/2008 (C8K1402-MS1)</b>										
					<b>Source: CRK0201-01</b>					
Benzene	4.70	0.50	ug/l	5.00	ND	94	70-125			
Bromodichloromethane	22.1	1.0	ug/l	5.00	18.4	73	40-150			
Bromoform	10.9	1.0	ug/l	5.00	6.63	85	45-120			
Carbon tetrachloride	4.71	0.50	ug/l	5.00	ND	94	60-140			
Chlorobenzene	4.74	0.50	ug/l	5.00	ND	95	60-125			
Chloroform	13.7	1.0	ug/l	5.00	10.1	73	55-130			
Dibromochloromethane	26.8	1.0	ug/l	5.00	21.7	103	50-130			
1,2-Dichlorobenzene	5.04	0.50	ug/l	5.00	ND	101	60-130			
1,4-Dichlorobenzene	5.24	0.50	ug/l	5.00	ND	105	60-135			
1,1-Dichloroethane	4.91	0.50	ug/l	5.00	ND	98	67-124			
1,2-Dichloroethane	4.79	0.50	ug/l	5.00	ND	96	50-140			
1,1-Dichloroethene	4.83	0.50	ug/l	5.00	ND	97	42-139			
cis-1,2-Dichloroethene	4.68	0.50	ug/l	5.00	ND	94	70-115			
trans-1,2-Dichloroethene	4.82	0.50	ug/l	5.00	ND	96	70-115			
1,2-Dichloropropane	4.64	0.50	ug/l	5.00	ND	93	65-125			
cis-1,3-Dichloropropene	4.53	0.50	ug/l	5.00	ND	91	45-130			
trans-1,3-Dichloropropene	4.12	0.50	ug/l	5.00	ND	82	55-110			
1,3-Dichloropropene, Total	8.65	0.50	ug/l	10.0	ND	86	30-140			
Ethylbenzene	5.06	0.50	ug/l	5.00	0.600	89	60-120			
Methylene chloride	4.82	0.50	ug/l	5.00	ND	96	60-110			
Styrene	4.36	0.50	ug/l	5.00	ND	87	25-140			
1,1,2,2-Tetrachloroethane	5.17	0.50	ug/l	5.00	ND	103	66-132			
Tetrachloroethene	4.58	0.50	ug/l	5.00	ND	92	55-135			
Toluene	4.76	0.50	ug/l	5.00	ND	95	65-125			
1,2,4-Trichlorobenzene	5.14	0.50	ug/l	5.00	ND	103	55-142			
1,1,1-Trichloroethane	4.64	0.50	ug/l	5.00	ND	93	55-143			
1,1,2-Trichloroethane	4.61	0.50	ug/l	5.00	ND	92	69-123			
Trichloroethene	4.61	0.50	ug/l	5.00	ND	92	75-115			

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Charles R. Morrow For Melissa Cunningham  
Project Manager



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\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1402 Extracted: 11/14/08</b>										
<b>Matrix Spike Analyzed: 11/14/2008 (C8K1402-MS1)</b>				<b>Source: CRK0201-01</b>						
Trichlorofluoromethane (Freon 11)	5.48	5.0	ug/l	5.00	0.830	93	65-140			
Trichlorotrifluoroethane (Freon 113)	4.86	10	ug/l	5.00	ND	97	60-135			
Vinyl chloride	4.94	0.50	ug/l	5.00	ND	99	60-130			
m,p-Xylenes	10.7	0.50	ug/l	10.0	1.69	90	60-125			
o-Xylene	5.80	0.50	ug/l	5.00	0.470	107	75-115			
Xylenes, Total	16.5	1.0	ug/l	15.0	2.16	96	60-135			
Methyl-tert-butyl Ether (MTBE)	10.1	3.0	ug/l	10.0	ND	101	50-130			
Trihalomethanes, Total	73.5	1.0	ug/l	20.0	56.8	83	55-125			
Surrogate: 4-Bromofluorobenzene	5.16		ug/l	5.00		103	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	5.40		ug/l	5.00		108	70-130			
<b>Matrix Spike Dup Analyzed: 11/14/2008 (C8K1402-MSD1)</b>				<b>Source: CRK0201-01</b>						
Benzene	5.22	0.50	ug/l	5.00	ND	104	70-125	10	25	
Bromodichloromethane	22.4	1.0	ug/l	5.00	18.4	78	40-150	1	20	
Bromoform	11.6	1.0	ug/l	5.00	6.63	100	45-120	7	20	
Carbon tetrachloride	5.24	0.50	ug/l	5.00	ND	105	60-140	11	30	
Chlorobenzene	5.39	0.50	ug/l	5.00	ND	108	60-125	13	20	
Chloroform	14.0	1.0	ug/l	5.00	10.1	79	55-130	2	15	
Dibromochloromethane	27.6	1.0	ug/l	5.00	21.7	119	50-130	3	15	
1,2-Dichlorobenzene	5.52	0.50	ug/l	5.00	ND	110	60-130	9	20	
1,4-Dichlorobenzene	5.75	0.50	ug/l	5.00	ND	115	60-135	9	20	
1,1-Dichloroethane	5.50	0.50	ug/l	5.00	ND	110	67-124	11	19	
1,2-Dichloroethane	5.53	0.50	ug/l	5.00	ND	111	50-140	14	30	
1,1-Dichloroethene	5.47	0.50	ug/l	5.00	ND	109	42-139	12	29	
cis-1,2-Dichloroethene	5.22	0.50	ug/l	5.00	ND	104	70-115	11	15	
trans-1,2-Dichloroethene	5.42	0.50	ug/l	5.00	ND	108	70-115	12	20	
1,2-Dichloropropane	5.35	0.50	ug/l	5.00	ND	107	65-125	14	20	
cis-1,3-Dichloropropene	5.14	0.50	ug/l	5.00	ND	103	45-130	13	15	
trans-1,3-Dichloropropene	4.70	0.50	ug/l	5.00	ND	94	55-110	13	20	
1,3-Dichloropropene, Total	9.84	0.50	ug/l	10.0	ND	98	30-140	13	20	
Ethylbenzene	5.47	0.50	ug/l	5.00	0.600	97	60-120	8	20	
Methylene chloride	5.45	0.50	ug/l	5.00	ND	109	60-110	12	15	
Styrene	4.87	0.50	ug/l	5.00	ND	97	25-140	11	25	
1,1,2,2-Tetrachloroethane	5.78	0.50	ug/l	5.00	ND	116	66-132	11	24	
Tetrachloroethene	5.12	0.50	ug/l	5.00	ND	102	55-135	11	20	
Toluene	5.35	0.50	ug/l	5.00	ND	107	65-125	12	20	

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Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### PURGEABLE ORGANIC COMPOUNDS BY GC/MS (EPA 524.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1402 Extracted: 11/14/08</b>										
<b>Matrix Spike Dup Analyzed: 11/14/2008 (C8K1402-MSD1)</b>					<b>Source: CRK0201-01</b>					
1,2,4-Trichlorobenzene	5.52	0.50	ug/l	5.00	ND	110	55-142	7	22	
1,1,1-Trichloroethane	5.20	0.50	ug/l	5.00	ND	104	55-143	11	21	
1,1,2-Trichloroethane	5.49	0.50	ug/l	5.00	ND	110	69-123	17	19	
Trichloroethene	5.17	0.50	ug/l	5.00	ND	103	75-115	11	20	
Trichlorofluoromethane (Freon 11)	6.21	5.0	ug/l	5.00	0.830	108	65-140	12	25	
Trichlorotrifluoroethane (Freon 113)	5.55	10	ug/l	5.00	ND	111	60-135	13	25	
Vinyl chloride	5.76	0.50	ug/l	5.00	ND	115	60-130	15	20	
m,p-Xylenes	11.6	0.50	ug/l	10.0	1.69	99	60-125	8	20	
o-Xylene	6.22	0.50	ug/l	5.00	0.470	115	75-115	7	20	
Xylenes, Total	17.8	1.0	ug/l	15.0	2.16	104	60-135	7	20	
Methyl-tert-butyl Ether (MTBE)	12.0	3.0	ug/l	10.0	ND	120	50-130	17	25	
Trihalomethanes, Total	75.7	1.0	ug/l	20.0	56.8	94	55-125	3	15	
Surrogate: 4-Bromofluorobenzene	5.14		ug/l	5.00		103	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	5.43		ug/l	5.00		109	70-130			

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Report Number: CRK0176

Sampled: 11/05/08  
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## METHOD BLANK/QC DATA

### EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1128 Extracted: 11/11/08</b>										
<b>Blank Analyzed: 11/11/2008 (C8K1128-BLK1)</b>										
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
Surrogate: 4-Bromofluorobenzene	5.89		ug/l	5.07		116	65-154			
<b>LCS Analyzed: 11/11/2008 (C8K1128-BS1)</b>										
1,2-Dibromoethane (EDB)	0.216	0.020	ug/l	0.252		86	70-130			
1,2-Dibromo-3-chloropropane	0.225	0.010	ug/l	0.252		89	70-130			
Surrogate: 4-Bromofluorobenzene	5.90		ug/l	5.04		117	65-154			
<b>LCS Dup Analyzed: 11/12/2008 (C8K1128-BSD1)</b>										
1,2-Dibromoethane (EDB)	0.0874	0.020	ug/l	0.100		87	70-130	2	30	
1,2-Dibromo-3-chloropropane	0.102	0.010	ug/l	0.100		101	70-130	13	21	
Surrogate: 4-Bromofluorobenzene	5.75		ug/l	5.02		114	65-154			
<b>Matrix Spike Analyzed: 11/11/2008 (C8K1128-MS1)</b>					<b>Source: CRK0176-01</b>					
1,2-Dibromoethane (EDB)	0.198	0.020	ug/l	0.252	ND	79	65-135			
1,2-Dibromo-3-chloropropane	0.216	0.010	ug/l	0.252	0.00318	84	65-135			
Surrogate: 4-Bromofluorobenzene	5.39		ug/l	5.04		107	65-154			

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Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: C8K1105 Extracted: 11/11/08										
Blank Analyzed: 11/11/2008-11/14/2008 (C8K1105-BLK1)										
Atrazine	ND	0.50	ug/l							
Benzo(a)pyrene	ND	0.10	ug/l							
Di(2-ethylhexyl)adipate	ND	5.0	ug/l							
Di(2-ethylhexyl)phthalate	ND	3.0	ug/l							
Hexachlorobenzene	ND	0.50	ug/l							
Hexachlorocyclopentadiene	ND	1.0	ug/l							
Molinate	ND	2.0	ug/l							
Simazine	ND	1.0	ug/l							
Thiobencarb	ND	1.0	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.92		ug/l	5.00		98	70-130			
Surrogate: Triphenylphosphate	4.68		ug/l	5.00		94	70-130			
Surrogate: Perylene-d12	3.93		ug/l	5.00		79	70-130			
LCS Analyzed: 11/11/2008-11/17/2008 (C8K1105-BS1)										
Atrazine	6.51	0.50	ug/l	5.00		130	70-130			MNRI
Benzo(a)pyrene	4.00	0.10	ug/l	5.00		80	70-130			
Di(2-ethylhexyl)adipate	9.49	5.0	ug/l	10.0		95	70-130			
Di(2-ethylhexyl)phthalate	9.29	3.0	ug/l	10.0		93	70-130			
Hexachlorobenzene	4.83	0.50	ug/l	5.00		97	70-130			
Hexachlorocyclopentadiene	11.7	1.0	ug/l	10.0		117	70-130			
Molinate	5.63	2.0	ug/l	5.00		113	70-130			
Simazine	7.13	1.0	ug/l	5.00		143	70-130			
Thiobencarb	6.24	1.0	ug/l	5.00		125	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.29		ug/l	5.00		106	70-130			
Surrogate: Triphenylphosphate	4.79		ug/l	5.00		96	70-130			
Surrogate: Perylene-d12	3.84		ug/l	5.00		77	70-130			
LCS Dup Analyzed: 11/11/2008-11/17/2008 (C8K1105-BS1)										
Atrazine	6.37	0.50	ug/l	5.00		127	70-130	2	10	
Benzo(a)pyrene	4.00	0.10	ug/l	5.00		80	70-130	0	10	
Di(2-ethylhexyl)adipate	7.70	5.0	ug/l	10.0		77	70-130	21	10	R-7
Di(2-ethylhexyl)phthalate	7.63	3.0	ug/l	10.0		76	70-130	20	10	R-7
Hexachlorobenzene	4.55	0.50	ug/l	5.00		91	70-130	6	10	
Hexachlorocyclopentadiene	11.3	1.0	ug/l	10.0		113	70-130	3	15	
Molinate	5.66	2.0	ug/l	5.00		113	70-130	1	10	
Simazine	6.82	1.0	ug/l	5.00		136	70-130	4	10	L
Thiobencarb	5.82	1.0	ug/l	5.00		116	70-130	7	5	R-7

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Project ID: \_Standard Pricing  
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Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1105 Extracted: 11/11/08</b>										
<b>LCS Dup Analyzed: 11/11/2008-11/17/2008 (C8K1105-BSD1)</b>										
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.74		ug/l	5.00		95	70-130			
Surrogate: Triphenylphosphate	4.64		ug/l	5.00		93	70-130			
Surrogate: Perylene-d12	3.86		ug/l	5.00		77	70-130			

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Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0618 Extracted: 11/06/08</b>										
<b>Blank Analyzed: 11/06/2008 (C8K0618-BLK1)</b>										
Alachlor	ND	1.0	ug/l							C
Endrin	ND	0.10	ug/l							
Heptachlor	ND	0.010	ug/l							C
Heptachlor epoxide	ND	0.010	ug/l							
Lindane (gamma-BHC)	ND	0.20	ug/l							
Methoxychlor	ND	10	ug/l							
Chlordane	ND	0.10	ug/l							
Toxaphene	ND	1.0	ug/l							
Aroclor 1016	ND	0.26	ug/l							
Aroclor 1221	ND	0.19	ug/l							
Aroclor 1232	ND	0.23	ug/l							
Aroclor 1242	ND	0.26	ug/l							
Aroclor 1248	ND	0.30	ug/l							
Aroclor 1254	ND	0.33	ug/l							
Aroclor 1260	ND	0.36	ug/l							
PCBs as Decachlorobiphenyl (DCB)	ND	0.50	ug/l							
<b>LCS Analyzed: 11/06/2008 (C8K0618-BS1)</b>										
Alachlor	1.42	1.0	ug/l	1.01		140	70-130			C, L
Endrin	0.115	0.10	ug/l	0.101		113	70-130			
Heptachlor	0.128	0.010	ug/l	0.101		126	70-127			
Heptachlor epoxide	0.112	0.010	ug/l	0.101		110	70-127			
Lindane (gamma-BHC)	0.111	0.20	ug/l	0.101		109	77-128			
Methoxychlor	0.623	10	ug/l	0.507		123	70-130			
<b>LCS Analyzed: 11/06/2008 (C8K0618-BS2)</b>										
Aroclor 1016	5.76	0.26	ug/l	5.07		114	70-130			

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Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### ORGANOHALIDE PESTICIDES AND COMMERCIAL PCB PRODUCTS (EPA 505)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0618 Extracted: 11/06/08</b>										
<b>LCS Dup Analyzed: 11/06/2008 (C8K0618-BS01)</b>										
Alachlor	0.909	1.0	ug/l	0.609		149	70-130	7	20	C, L
Endrin	0.0718	0.10	ug/l	0.0609		118	70-130	4	20	
Heptachlor	0.0789	0.010	ug/l	0.0609		130	70-127	3	20	C, L
Heptachlor epoxide	0.0711	0.010	ug/l	0.0609		117	70-127	6	20	
Lindane (gamma-BHC)	0.0692	0.20	ug/l	0.0609		114	77-128	4	20	
Methoxychlor	0.393	10	ug/l	0.304		129	70-130	5	20	
<b>Matrix Spike Analyzed: 11/06/2008 (C8K0618-MS1)</b>										
					<b>Source: CRK0176-01</b>					
Alachlor	1.50	1.0	ug/l	0.985	ND	152	65-135			MI
Endrin	0.121	0.10	ug/l	0.0985	ND	122	65-135			
Heptachlor	0.130	0.010	ug/l	0.0985	ND	132	65-135			
Heptachlor epoxide	0.119	0.010	ug/l	0.0985	ND	120	65-135			
Lindane (gamma-BHC)	0.119	0.20	ug/l	0.0985	ND	121	65-135			
Methoxychlor	0.655	10	ug/l	0.492	0.0740	118	65-135			

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## METHOD BLANK/QC DATA

### CHLORINATED ACIDS (EPA 515.4)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1104 Extracted: 11/11/08</b>										
<b>Blank Analyzed: 11/12/2008-11/13/2008 (C8K1104-BLK1)</b>										
Bentazon	ND	2.0	ug/l							
2,4-D	ND	10	ug/l							C
Dalapon	ND	10	ug/l							
Dacthal acid metabolites	ND	1.0	ug/l							
Dicamba	ND	1.5	ug/l							
Dinoseb	ND	2.0	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	1.0	ug/l							
2,4,5-TP (Silvex)	ND	1.0	ug/l							
Surrogate: 2,4-Dichlorophenylacetic acid	19.1		ug/l	20.2		94	70-130			
<b>LCS Analyzed: 11/12/2008-11/13/2008 (C8K1104-BS1)</b>										
Bentazon	1.04	2.0	ug/l	0.810		129	70-130			
2,4-D	1.07	10	ug/l	0.810		133	70-130			C, L
Dalapon	0.643	10	ug/l	0.810		79	70-130			
Dacthal acid metabolites	0.790	1.0	ug/l	0.810		98	70-130			
Dicamba	0.411	1.5	ug/l	0.405		102	70-130			
Dinoseb	0.876	2.0	ug/l	0.810		108	70-130			
Pentachlorophenol	0.0826	0.20	ug/l	0.0810		102	70-130			
Picloram	0.443	1.0	ug/l	0.405		110	70-130			
2,4,5-TP (Silvex)	0.214	1.0	ug/l	0.202		106	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	20.5		ug/l	20.2		101	70-130			
<b>LCS Dup Analyzed: 11/12/2008-11/13/2008 (C8K1104-BS1)</b>										
Bentazon	2.32	2.0	ug/l	2.43		96	70-130	30	20	R-7
2,4-D	3.00	10	ug/l	2.43		123	70-130	7	20	
Dalapon	2.25	10	ug/l	2.43		93	70-130	15	20	
Dacthal acid metabolites	2.56	1.0	ug/l	2.43		105	70-130	8	20	
Dicamba	1.21	1.5	ug/l	1.21		100	70-130	2	20	
Dinoseb	2.67	2.0	ug/l	2.43		110	70-130	1	20	
Pentachlorophenol	0.230	0.20	ug/l	0.243		95	70-130	8	20	
Picloram	1.33	1.0	ug/l	1.21		110	70-130	0	20	
2,4,5-TP (Silvex)	0.638	1.0	ug/l	0.607		105	70-130	1	20	
Surrogate: 2,4-Dichlorophenylacetic acid	18.9		ug/l	20.2		93	70-130			

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### CHLORINATED ACIDS (EPA 515.4)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K1104 Extracted: 11/11/08</b>										
<b>Matrix Spike Analyzed: 11/12/2008-11/13/2008 (C8K1104-MS1)</b>					<b>Source: CRJ1148-02RE1</b>					
Bentazon	1.31	2.0	ug/l	0.806	ND	162	70-130			MI
2,4-D	1.10	10	ug/l	0.806	ND	136	70-130			MI
Dalapon	0.626	10	ug/l	0.806	ND	78	70-130			
Dacthal acid metabolites	0.840	1.0	ug/l	0.806	ND	104	70-130			
Dicamba	0.431	1.5	ug/l	0.403	ND	107	70-130			
Dinoseb	0.847	2.0	ug/l	0.806	ND	105	70-130			
Pentachlorophenol	0.0803	0.20	ug/l	0.0806	ND	100	70-130			
Picloram	0.479	1.0	ug/l	0.403	ND	119	70-130			
2,4,5-TP (Silvex)	0.212	1.0	ug/l	0.201	ND	105	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	19.8		ug/l	20.1		98	70-130			
<b>Matrix Spike Analyzed: 11/12/2008-11/13/2008 (C8K1104-MS2)</b>					<b>Source: CRJ1148-03RE1</b>					
Bentazon	0.719	2.0	ug/l	0.806	ND	89	70-130			M2
2,4-D	1.78	10	ug/l	0.806	ND	220	70-130			MI
Dalapon	2.82	10	ug/l	0.806	ND	350	70-130			MI
Dacthal acid metabolites	0.845	1.0	ug/l	0.806	ND	105	70-130			
Dicamba	0.410	1.5	ug/l	0.403	ND	102	70-130			
Dinoseb	0.859	2.0	ug/l	0.806	ND	107	70-130			
Pentachlorophenol	0.0812	0.20	ug/l	0.0806	0.0120	86	70-130			
Picloram	0.581	1.0	ug/l	0.403	ND	144	70-130			MI
2,4,5-TP (Silvex)	0.202	1.0	ug/l	0.202	ND	100	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	22.3		ug/l	20.2		111	70-130			

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Sampled: 11/05/08  
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## METHOD BLANK/QC DATA

### CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0724 Extracted: 11/07/08</b>										
<b>Blank Analyzed: 11/07/2008 (C8K0724-BLK1)</b>										
Aldicarb Sulfoxide	ND	3.0	ug/l							
Aldicarb Sulfone	ND	2.0	ug/l							
Oxamyl	ND	20	ug/l							
Methomyl	ND	2.0	ug/l							
3-Hydroxycarbofuran	ND	3.0	ug/l							
Aldicarb	ND	3.0	ug/l							
Carbofuran	ND	5.0	ug/l							C
Carbaryl	ND	5.0	ug/l							
<b>LCS Analyzed: 11/07/2008 (C8K0724-BS1)</b>										
Aldicarb Sulfoxide	11.9	3.0	ug/l	10.0		119	80-120			
Aldicarb Sulfone	11.7	2.0	ug/l	10.0		117	80-120			
Oxamyl	11.6	20	ug/l	10.0		116	80-120			
Methomyl	12.0	2.0	ug/l	10.0		120	80-120			
3-Hydroxycarbofuran	11.3	3.0	ug/l	10.0		113	80-120			
Aldicarb	11.3	3.0	ug/l	10.0		113	80-120			
Carbofuran	12.7	5.0	ug/l	10.0		127	80-120			C, L
Carbaryl	11.2	5.0	ug/l	10.0		112	80-120			
<b>LCS Dup Analyzed: 11/08/2008 (C8K0724-BSD1)</b>										
Aldicarb Sulfoxide	22.1	3.0	ug/l	20.0		111	80-120	7	20	
Aldicarb Sulfone	21.8	2.0	ug/l	20.0		109	80-120	7	20	
Oxamyl	21.8	20	ug/l	20.0		109	80-120	7	20	
Methomyl	21.8	2.0	ug/l	20.0		109	80-120	9	20	
3-Hydroxycarbofuran	21.2	3.0	ug/l	20.0		106	80-120	7	20	
Aldicarb	20.2	3.0	ug/l	20.0		101	80-120	12	20	
Carbofuran	23.7	5.0	ug/l	20.0		118	80-120	7	20	
Carbaryl	20.9	5.0	ug/l	20.0		104	80-120	7	20	

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## METHOD BLANK/QC DATA

### CARBAMATES/CARBAMOXYLOXIME PESTICIDES BY HPLC (EPA 531.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0724 Extracted: 11/07/08</b>										
<b>Matrix Spike Analyzed: 11/10/2008 (C8K0724-MS1)</b>					<b>Source: CRK0237-01</b>					
Aldicarb Sulfoxide	25.1	3.0	ug/l	20.0	ND	125	65-135			
Aldicarb Sulfone	25.1	2.0	ug/l	20.0	ND	125	65-135			
Oxamyl	25.0	20	ug/l	20.0	ND	125	65-135			
Methomyl	25.4	2.0	ug/l	20.0	ND	127	65-135			
3-Hydroxycarbofuran	24.2	3.0	ug/l	20.0	ND	121	65-135			
Aldicarb	20.9	3.0	ug/l	20.0	ND	104	65-135			
Carbofuran	25.8	5.0	ug/l	20.0	ND	129	65-135			
Carbaryl	26.3	5.0	ug/l	20.0	ND	132	65-135			

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## METHOD BLANK/QC DATA

### ENDOTHALL (EPA 548.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0704 Extracted: 11/07/08</b>										
<b>Blank Analyzed: 11/10/2008 (C8K0704-BLK1)</b>										
Endothall	ND	45	ug/l							
<b>LCS Analyzed: 11/10/2008 (C8K0704-BS1)</b>										
Endothall	59.8	45	ug/l	50.0		120	45-125			
<b>LCS Dup Analyzed: 11/10/2008 (C8K0704-BSD1)</b>										
Endothall	61.3	45	ug/l	50.0		123	45-125	3	35	
<b>Matrix Spike Analyzed: 11/10/2008 (C8K0704-MS1)</b>										
Endothall	9.89	45	ug/l	50.0	ND	20	45-125			M2

Source: CRK0236-01

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## METHOD BLANK/QC DATA

### GLYPHOSATE (EPA 547)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0728 Extracted: 11/09/08</b>										
<b>Blank Analyzed: 11/09/2008 (C8K0728-BLK1)</b>										
Glyphosate	ND	25	ug/l							
<b>LCS Analyzed: 11/09/2008 (C8K0728-BS1)</b>										
Glyphosate	24.1	25	ug/l	25.0		96	80-110			
<b>LCS Dup Analyzed: 11/10/2008 (C8K0728-BSD1)</b>										
Glyphosate	51.1	25	ug/l	50.0		102	80-110	6	10	
<b>Matrix Spike Analyzed: 11/09/2008 (C8K0728-MS1)</b>										
Glyphosate	25.6	25	ug/l	25.0	ND	102	80-110			
<b>Matrix Spike Analyzed: 11/09/2008 (C8K0728-MS2)</b>										
Glyphosate	25.0	25	ug/l	25.0	ND	100	80-110			

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8K0627 Extracted: 11/06/08</b>										
<b>Duplicate Analyzed: 11/06/2008 (C8K0627-DUP1)</b>										
pH	7.35	NA	pH Units		7.35			0	5	HFT
<b>Duplicate Analyzed: 11/06/2008 (C8K0627-DUP2)</b>										
pH	7.90	NA	pH Units		7.90			0	5	HFT
<b>Batch: C8K0628 Extracted: 11/06/08</b>										
<b>Blank Analyzed: 11/06/2008 (C8K0628-BLK1)</b>										
Odor	ND	1.0	T.O.N.							
<b>Batch: C8K0631 Extracted: 11/06/08</b>										
<b>Duplicate Analyzed: 11/06/2008 (C8K0631-DUP1)</b>										
Color	ND	1	Color Units		ND				20	pH
<b>Batch: C8K0634 Extracted: 11/06/08</b>										
<b>Blank Analyzed: 11/06/2008 (C8K0634-BLK1)</b>										
Turbidity	ND	0.10	NTU							
<b>Duplicate Analyzed: 11/06/2008 (C8K0634-DUP1)</b>										
Turbidity	ND	0.10	NTU		ND				10	

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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**Batch: 8K10116 Extracted: 11/10/08**

#### Blank Analyzed: 11/11/2008-11/12/2008 (8K10116-BLK1)

Calcium	ND	0.10	mg/l							
Iron	ND	0.040	mg/l							
Magnesium	ND	0.020	mg/l							
Potassium	ND	0.50	mg/l							
Silicon	ND	0.11	mg/l as Silica							
Sodium	ND	0.50	mg/l							
Strontium	ND	0.020	mg/l							

#### LCS Analyzed: 11/11/2008-11/12/2008 (8K10116-BS1)

Calcium	1.04	0.10	mg/l	1.00		104	85-115			
Iron	0.976	0.040	mg/l	1.00		98	85-115			
Magnesium	1.00	0.020	mg/l	1.00		100	85-115			
Potassium	9.78	0.50	mg/l	10.0		98	85-115			
Silicon	9.98	0.11	mg/l as Silica	10.7		93	85-115			
Sodium	10.2	0.50	mg/l	10.0		102	85-115			
Strontium	0.931	0.020	mg/l	1.00		93	85-115			

#### Matrix Spike Analyzed: 11/11/2008-11/12/2008 (8K10116-MS1)

Source: IRK0296-01

Calcium	53.2	0.10	mg/l	1.00	53.5	-35	70-130			MHA
Iron	1.00	0.040	mg/l	1.00	ND	100	70-130			
Magnesium	11.0	0.020	mg/l	1.00	9.83	118	70-130			MHA
Potassium	15.0	0.50	mg/l	10.0	5.36	97	70-130			
Silicon	28.5	0.11	mg/l as Silica	10.7	18.1	97	70-130			
Sodium	101	0.50	mg/l	10.0	90.0	109	70-130			MHA
Strontium	1.30	0.020	mg/l	1.00	0.328	97	70-130			

#### Matrix Spike Analyzed: 11/11/2008-11/12/2008 (8K10116-MS2)

Source: CRK0176-01

Calcium	259	0.10	mg/l	1.00	270	-1180	70-130			MHA
Iron	1.21	0.040	mg/l	1.00	0.249	96	70-130			
Magnesium	58.4	0.020	mg/l	1.00	59.4	-99	70-130			MHA
Potassium	19.1	0.50	mg/l	10.0	7.94	112	70-130			
Silicon	45.1	0.11	mg/l as Silica	10.7	35.0	94	70-130			
Sodium	1370	1.0	mg/l	10.0	1360	106	70-130			MHA
Strontium	8.88	0.020	mg/l	1.00	8.29	59	70-130			MHA

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K10116 Extracted: 11/10/08</b>										
<b>Matrix Spike Dup Analyzed: 11/11/2008-11/12/2008 (8K10116-MSD1)</b>					<b>Source: IRK0296-01</b>					
Calcium	53.6	0.10	mg/l	1.00	53.5	13	70-130	1	20	MHA
Iron	0.998	0.040	mg/l	1.00	ND	100	70-130	1	20	
Magnesium	10.9	0.020	mg/l	1.00	9.83	107	70-130	1	20	MHA
Potassium	15.4	0.50	mg/l	10.0	5.36	100	70-130	2	20	
Silicon	28.3	0.11	mg/l as Silica	10.7	18.1	96	70-130	1	20	
Sodium	100	0.50	mg/l	10.0	90.0	104	70-130	1	20	MHA
Strontium	1.30	0.020	mg/l	1.00	0.328	97	70-130	0	20	

#### **Batch: 8K10129 Extracted: 11/10/08**

##### **Blank Analyzed: 11/10/2008 (8K10129-BLK1)**

Mercury	ND	0.00020	mg/l
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##### **LCS Analyzed: 11/10/2008 (8K10129-BS1)**

Mercury	0.00869	0.00020	mg/l	0.00800	109	85-115
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##### **Matrix Spike Analyzed: 11/10/2008 (8K10129-MS1)**

Mercury	0.00849	0.00020	mg/l	0.00800	ND	106	70-130
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##### **Matrix Spike Dup Analyzed: 11/10/2008 (8K10129-MSD1)**

Mercury	0.00866	0.00020	mg/l	0.00800	ND	108	70-130	2	20
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#### **Batch: 8K10149 Extracted: 11/10/08**

##### **Blank Analyzed: 11/11/2008-11/12/2008 (8K10149-BLK1)**

Aluminum	ND	10	ug/l
Uranium pCi/L (CA)	ND	1.0	pCi/L
Antimony	ND	2.0	ug/l
Arsenic	ND	1.0	ug/l
Barium	ND	1.0	ug/l
Beryllium	ND	0.50	ug/l
Cadmium	ND	1.0	ug/l
Chromium	ND	2.0	ug/l
Copper	ND	2.0	ug/l
Lead	ND	1.0	ug/l
Manganese	ND	1.0	ug/l
Nickel	ND	2.0	ug/l
Selenium	ND	2.0	ug/l

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Charles R. Morrow For Melissa Cunningham  
Project Manager



Layne Christensen  
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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K10149 Extracted: 11/10/08</b>										
<b>Blank Analyzed: 11/11/2008-11/12/2008 (8K10149-BLK1)</b>										
Silver	ND	1.0	ug/l							
Thallium	ND	1.0	ug/l							
Zinc	ND	20	ug/l							
<b>LCS Analyzed: 11/11/2008-11/12/2008 (8K10149-BS1)</b>										
Aluminum	80.7	10	ug/l	80.0		101	85-115			
Uranium pCi/L (CA)	53.5	1.0	pCi/L	53.6		100	85-115			
Antimony	78.9	2.0	ug/l	80.0		99	85-115			
Arsenic	78.1	1.0	ug/l	80.0		98	85-115			
Barium	76.4	1.0	ug/l	80.0		95	85-115			
Beryllium	74.1	0.50	ug/l	80.0		93	85-115			
Cadmium	75.8	1.0	ug/l	80.0		95	85-115			
Chromium	80.2	2.0	ug/l	80.0		100	85-115			
Copper	79.6	2.0	ug/l	80.0		100	85-115			
Lead	78.2	1.0	ug/l	80.0		98	85-115			
Manganese	78.5	1.0	ug/l	80.0		98	85-115			M-3
Nickel	79.6	2.0	ug/l	80.0		99	85-115			
Selenium	73.5	2.0	ug/l	80.0		92	85-115			
Silver	79.8	1.0	ug/l	80.0		100	85-115			
Thallium	79.6	1.0	ug/l	80.0		100	85-115			
Zinc	74.1	20	ug/l	80.0		93	85-115			

#### Matrix Spike Analyzed: 11/11/2008-11/12/2008 (8K10149-MS1)

#### Source: IRK1016-01

Aluminum	87.9	10	ug/l	80.0	ND	110	70-130
Uranium pCi/L (CA)	66.6	1.0	pCi/L	53.6	5.92	113	70-130
Antimony	82.2	2.0	ug/l	80.0	ND	103	70-130
Arsenic	80.0	1.0	ug/l	80.0	1.09	99	70-130
Barium	150	1.0	ug/l	80.0	66.5	104	70-130
Beryllium	77.3	0.50	ug/l	80.0	ND	97	70-130
Cadmium	74.5	1.0	ug/l	80.0	ND	93	70-130
Chromium	93.3	2.0	ug/l	80.0	8.41	106	70-130
Copper	76.4	2.0	ug/l	80.0	1.49	94	70-130
Lead	78.3	1.0	ug/l	80.0	ND	98	70-130
Manganese	79.5	1.0	ug/l	80.0	ND	99	70-130
Nickel	80.5	2.0	ug/l	80.0	2.98	97	70-130
Selenium	76.6	2.0	ug/l	80.0	2.69	92	70-130
Silver	75.0	1.0	ug/l	80.0	ND	94	70-130

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## METHOD BLANK/QC DATA

## METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K10149 Extracted: 11/10/08</b>										
<b>Matrix Spike Analyzed: 11/11/2008-11/12/2008 (8K10149-MS1)</b>					<b>Source: IRK1016-01</b>					
Thallium	77.0	1.0	ug/l	80.0	ND	96	70-130			
Zinc	69.8	20	ug/l	80.0	3.01	83	70-130			
<b>Matrix Spike Analyzed: 11/11/2008-11/13/2008 (8K10149-MS2)</b>					<b>Source: IRK0279-01</b>					
Aluminum	94.3	10	ug/l	80.0	17.0	97	70-130			
Uranium pCi/L (CA)	166	1.0	pCi/L	53.6	111	102	70-130			
Antimony	92.0	2.0	ug/l	80.0	0.214	115	70-130			
Arsenic	85.6	1.0	ug/l	80.0	6.17	99	70-130			
Barium	271	1.0	ug/l	80.0	167	130	70-130			
Beryllium	83.7	0.50	ug/l	80.0	ND	105	70-130			
Cadmium	80.0	1.0	ug/l	80.0	ND	100	70-130			
Chromium	85.6	2.0	ug/l	80.0	1.04	106	70-130			
Copper	79.5	2.0	ug/l	80.0	3.87	94	70-130			
Lead	74.0	1.0	ug/l	80.0	1.57	91	70-130			
Manganese	3140	1.0	ug/l	80.0	2920	278	70-130			
Nickel	82.9	2.0	ug/l	80.0	4.78	98	70-130			
Selenium	74.6	2.0	ug/l	80.0	5.74	86	70-130			
Silver	79.4	1.0	ug/l	80.0	ND	99	70-130			
Thallium	70.4	1.0	ug/l	80.0	0.269	88	70-130			
Zinc	111	20	ug/l	80.0	52.0	74	70-130			
<b>Matrix Spike Dup Analyzed: 11/11/2008-11/12/2008 (8K10149-MSD1)</b>					<b>Source: IRK1016-01</b>					
Aluminum	92.4	10	ug/l	80.0	ND	115	70-130	5	20	
Uranium pCi/L (CA)	66.1	1.0	pCi/L	53.6	5.92	112	70-130	1	20	
Antimony	84.9	2.0	ug/l	80.0	ND	106	70-130	3	20	
Arsenic	79.9	1.0	ug/l	80.0	1.09	98	70-130	0	20	
Barium	161	1.0	ug/l	80.0	66.5	118	70-130	7	20	
Beryllium	69.0	0.50	ug/l	80.0	ND	86	70-130	11	20	
Cadmium	76.8	1.0	ug/l	80.0	ND	96	70-130	3	20	
Chromium	93.1	2.0	ug/l	80.0	8.41	106	70-130	0	20	
Copper	76.7	2.0	ug/l	80.0	1.49	94	70-130	0	20	
Lead	78.4	1.0	ug/l	80.0	ND	98	70-130	0	20	
Manganese	79.8	1.0	ug/l	80.0	ND	100	70-130	0	20	
Nickel	81.4	2.0	ug/l	80.0	2.98	98	70-130	1	20	
Selenium	75.4	2.0	ug/l	80.0	2.69	91	70-130	2	20	
Silver	77.1	1.0	ug/l	80.0	ND	96	70-130	3	20	
Thallium	74.4	1.0	ug/l	80.0	ND	93	70-130	3	20	

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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

## METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 8K10149 Extracted: 11/10/08</u>										
Matrix Spike Dup Analyzed: 11/11/2008-11/12/2008 (8K10149-MSD1)					Source: IRK1016-01					
Zinc	70.9	20	ug/l	80.0	3.01	85	70-130	2	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K06062 Extracted: 11/06/08</b>										
<b>Blank Analyzed: 11/06/2008 (8K06062-BLK1)</b>										
Chloride	ND	0.50	mg/l							
Nitrate-N	ND	0.11	mg/l							
Nitrate-NO3	ND	0.50	mg/l							
Nitrite-N	ND	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.15	mg/l							
Sulfate	ND	0.50	mg/l							
<b>LCS Analyzed: 11/06/2008 (8K06062-BS1)</b>										
Chloride	5.10	0.50	mg/l	5.00		102	90-110			M-3
Nitrate-N	1.15	0.11	mg/l	1.13		102	90-110			M-3
Nitrate-NO3	5.10	0.50	mg/l	5.00		102	90-110			M-3
Nitrite-N	1.49	0.15	mg/l	1.52		98	90-110			
Sulfate	9.93	0.50	mg/l	10.0		99	90-110			M-3
<b>Matrix Spike Analyzed: 11/06/2008 (8K06062-MS1)</b>										
					<b>Source: IRK0423-20</b>					
Chloride	1.00E9	0.50	mg/l	5.00	1.00E9	0	80-120			
Nitrate-N	1.21	0.11	mg/l	1.13	ND	107	80-120			
Nitrate-NO3	5.37	0.50	mg/l	5.00	0.262	102	80-120			
Nitrite-N	1.54	0.15	mg/l	1.52	ND	101	80-120			
Sulfate	1.00E9	0.50	mg/l	10.0	1.00E9	0	80-120			
<b>Matrix Spike Analyzed: 11/06/2008 (8K06062-MS2)</b>										
					<b>Source: IRK0542-01</b>					
Chloride	1.00E9	0.50	mg/l	5.00	1.00E9	0	80-120			
Nitrate-N	1.00E9	0.11	mg/l	1.13	1.00E9	0	80-120			
Nitrite-N	1.41	0.15	mg/l	1.52	ND	93	80-120			
Sulfate	1.00E9	0.50	mg/l	10.0	1.00E9	0	80-120			
<b>Matrix Spike Dup Analyzed: 11/06/2008 (8K06062-MSD1)</b>										
					<b>Source: IRK0423-20</b>					
Chloride	1.00E9	0.50	mg/l	5.00	1.00E9	0	80-120	0	20	
Nitrate-N	1.21	0.11	mg/l	1.13	ND	107	80-120	0	20	
Nitrate-NO3	5.35	0.50	mg/l	5.00	0.262	102	80-120	0	20	
Nitrite-N	1.48	0.15	mg/l	1.52	ND	97	80-120	4	20	
Sulfate	1.00E9	0.50	mg/l	10.0	1.00E9	0	80-120	0	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K06100 Extracted: 11/06/08</b>										
<b>Blank Analyzed: 11/06/2008 (8K06100-BLK1)</b>										
Chromium VI	ND	0.0010	mg/l							
<b>LCS Analyzed: 11/06/2008 (8K06100-BS1)</b>										
Chromium VI	0.0489	0.0010	mg/l	0.0500		98	90-110			
<b>Matrix Spike Analyzed: 11/06/2008 (8K06100-MS1)</b>										
Chromium VI	0.0481	0.0010	mg/l	0.0500	Source: CRK0176-01 ND	96	90-110			
<b>Matrix Spike Dup Analyzed: 11/06/2008 (8K06100-MSD1)</b>										
Chromium VI	0.0480	0.0010	mg/l	0.0500	Source: CRK0176-01 ND	96	90-110	0	10	
<b>Batch: 8K06107 Extracted: 11/06/08</b>										
<b>Blank Analyzed: 11/06/2008 (8K06107-BLK1)</b>										
Surfactants (MBAS)	ND	0.10	mg/l							
<b>LCS Analyzed: 11/06/2008 (8K06107-BS1)</b>										
Surfactants (MBAS)	0.256	0.10	mg/l	0.250		102	90-110			
<b>Matrix Spike Analyzed: 11/06/2008 (8K06107-MS1)</b>										
Surfactants (MBAS)	0.278	0.10	mg/l	0.250	Source: CRK0176-01 ND	111	50-125			
<b>Matrix Spike Dup Analyzed: 11/06/2008 (8K06107-MSD1)</b>										
Surfactants (MBAS)	0.279	0.10	mg/l	0.250	Source: CRK0176-01 ND	112	50-125	0	20	
<b>Batch: 8K06109 Extracted: 11/06/08</b>										
<b>Duplicate Analyzed: 11/06/2008 (8K06109-DUP1)</b>										
Carbon Dioxide	19.4	2.0	mg/l		Source: CRK0176-01 17.6			10	20	HFTa

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K07005 Extracted: 11/07/08</b>										
<b>Blank Analyzed: 11/07/2008 (8K07005-BLK1)</b>										
Fluoride	ND	0.10	mg/l							
<b>LCS Analyzed: 11/07/2008 (8K07005-BS1)</b>										
Fluoride	0.992	0.10	mg/l	1.00		99	90-110			
<b>Matrix Spike Analyzed: 11/07/2008 (8K07005-MS1)</b>										
Fluoride	1.94	0.10	mg/l	1.00	Source: IRK0371-01 0.992	95	80-120			
<b>Matrix Spike Dup Analyzed: 11/07/2008 (8K07005-MSD1)</b>										
Fluoride	1.96	0.10	mg/l	1.00	Source: IRK0371-01 0.992	96	80-120	1	20	
<b>Batch: 8K07008 Extracted: 11/07/08</b>										
<b>Blank Analyzed: 11/07/2008 (8K07008-BLK1)</b>										
Total Organic Carbon	ND	0.10	mg/l							
<b>LCS Analyzed: 11/07/2008 (8K07008-BS1)</b>										
Total Organic Carbon	10.2	0.10	mg/l	10.0		102	90-110			
<b>Matrix Spike Analyzed: 11/07/2008 (8K07008-MS1)</b>										
Total Organic Carbon	12.8	0.10	mg/l	10.0	Source: IRK0571-01 2.79	101	80-120			
<b>Matrix Spike Dup Analyzed: 11/07/2008 (8K07008-MSD1)</b>										
Total Organic Carbon	12.6	0.10	mg/l	10.0	Source: IRK0571-01 2.79	99	80-120	2	20	
<b>Batch: 8K07068 Extracted: 11/07/08</b>										
<b>Blank Analyzed: 11/07/2008 (8K07068-BLK1)</b>										
Ferrous Iron	ND	0.10	mg/l							

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 8K07068 Extracted: 11/07/08</u></b>										
<b>LCS Analyzed: 11/07/2008 (8K07068-BS1)</b>										
Ferrous Iron	5.00	0.10	mg/l	5.00		100	80-120			
<b>Duplicate Analyzed: 11/07/2008 (8K07068-DUP1)</b>										
Ferrous Iron	ND	0.10	mg/l		ND				20	HFTa
<b><u>Batch: 8K07071 Extracted: 11/07/08</u></b>										
<b>Duplicate Analyzed: 11/07/2008 (8K07071-DUP1)</b>										
pH	8.06	0.100	pH Units		8.07			0	5	HFTa
<b><u>Batch: 8K07085 Extracted: 11/07/08</u></b>										
<b>Blank Analyzed: 11/12/2008 (8K07085-BLK1)</b>										
Biochemical Oxygen Demand	ND	2.0	mg/l							
<b>LCS Analyzed: 11/12/2008 (8K07085-BS1)</b>										
Biochemical Oxygen Demand	176	100	mg/l	198		89	85-115			
<b>LCS Dup Analyzed: 11/12/2008 (8K07085-BSD1)</b>										
Biochemical Oxygen Demand	188	100	mg/l	198		95	85-115	7	20	
<b><u>Batch: 8K10049 Extracted: 11/10/08</u></b>										
<b>Blank Analyzed: 11/10/2008 (8K10049-BLK1)</b>										
Total Dissolved Solids	ND	10	mg/l							

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K10049 Extracted: 11/10/08</b>										
<b>LCS Analyzed: 11/10/2008 (8K10049-BS1)</b>										
Total Dissolved Solids	1010	10	mg/l	1000		101	90-110			
<b>Duplicate Analyzed: 11/10/2008 (8K10049-DUP1)</b>										
Total Dissolved Solids	1890	10	mg/l		1940			3	10	
<b>Source: IRK0413-01</b>										
<b>Batch: 8K10052 Extracted: 11/10/08</b>										
<b>Duplicate Analyzed: 11/10/2008 (8K10052-DUP1)</b>										
Specific Conductance	2.76	1.0	umhos/cm @ 25C		2.68			3	5	
<b>Source: IRK0469-04</b>										
<b>Reference Analyzed: 11/10/2008 (8K10052-SRM1)</b>										
Specific Conductance	1030	1.0	umhos/cm @ 25C	994		104	90-110			
<b>Batch: 8K10074 Extracted: 11/10/08</b>										
<b>Blank Analyzed: 11/10/2008 (8K10074-BLK1)</b>										
Alkalinity as CaCO3	ND	2.0	mg/l							
Bicarbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l							
<b>Duplicate Analyzed: 11/10/2008 (8K10074-DUP1)</b>										
Alkalinity as CaCO3	158	2.0	mg/l		156			1	20	
Bicarbonate Alkalinity as CaCO3	158	2.0	mg/l		156			1	20	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l		ND				20	
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l		ND				20	
<b>Source: IRK0525-13</b>										

### TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K10074 Extracted: 11/10/08</b>										
<b>Reference Analyzed: 11/10/2008 (8K10074-SRM1)</b>										
Alkalinity as CaCO <sub>3</sub>	232	2.0	mg/l	223		104	90-110			
<b>Batch: 8K11096 Extracted: 11/11/08</b>										
<b>Blank Analyzed: 11/11/2008 (8K11096-BLK1)</b>										
Total Cyanide	ND	0.025	mg/l							
<b>LCS Analyzed: 11/11/2008 (8K11096-BS1)</b>										
Total Cyanide	0.198	0.025	mg/l	0.200		99	90-110			
<b>Matrix Spike Analyzed: 11/11/2008 (8K11096-MS1)</b>										
Total Cyanide	0.192	0.025	mg/l	0.200	ND	96	70-115			
<b>Matrix Spike Dup Analyzed: 11/11/2008 (8K11096-MSD1)</b>										
Total Cyanide	0.191	0.025	mg/l	0.200	ND	96	70-115	0	15	
<b>Batch: 8K11123 Extracted: 11/11/08</b>										
<b>Blank Analyzed: 11/11/2008 (8K11123-BLK1)</b>										
Ammonia as Ammonium	ND	0.60	mg/l							
<b>LCS Analyzed: 11/11/2008 (8K11123-BS1)</b>										
Ammonia as Ammonium	1.28	0.60	mg/l	1.29		99	85-115			
<b>Matrix Spike Analyzed: 11/11/2008 (8K11123-MS1)</b>										
Ammonia as Ammonium	2.94	0.60	mg/l	2.58	ND	114	75-125			

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Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K11123 Extracted: 11/11/08</b>										
<b>Matrix Spike Dup Analyzed: 11/11/2008 (8K11123-MSD1)</b>					<b>Source: IRK0421-02</b>					
Ammonia as Ammonium	2.94	0.60	mg/l	2.58	ND	114	75-125	0	15	
<b>Batch: 8K12108 Extracted: 11/12/08</b>										
<b>Blank Analyzed: 11/12/2008 (8K12108-BLK1)</b>										
Total Suspended Solids	ND	10	mg/l							
<b>LCS Analyzed: 11/12/2008 (8K12108-BS1)</b>										
Total Suspended Solids	998	10	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 11/12/2008 (8K12108-DUP1)</b>					<b>Source: IRK0452-02</b>					
Total Suspended Solids	ND	10	mg/l		ND				10	
<b>Batch: 8K13117 Extracted: 11/13/08</b>										
<b>Blank Analyzed: 11/13/2008 (8K13117-BLK1)</b>										
Phosphate (PO4)	ND	0.15	mg/l							
<b>LCS Analyzed: 11/13/2008 (8K13117-BS1)</b>										
Phosphate (PO4)	2.64	0.15	mg/l	3.07		86	80-120			
<b>Matrix Spike Analyzed: 11/13/2008 (8K13117-MS1)</b>					<b>Source: IRK0364-03</b>					
Phosphate (PO4)	4.30	0.15	mg/l	3.07	2.14	70	75-125			M2
<b>Matrix Spike Dup Analyzed: 11/13/2008 (8K13117-MSD1)</b>					<b>Source: IRK0364-03</b>					
Phosphate (PO4)	4.07	0.15	mg/l	3.07	2.14	63	75-125	6	20	M2

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\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8K14067 Extracted: 11/14/08</b>										
<b>Blank Analyzed: 11/14/2008 (8K14067-BLK1)</b>										
Perchlorate	ND	2.0	ug/l							
<b>LCS Analyzed: 11/14/2008 (8K14067-BS1)</b>										
Perchlorate	24.7	2.0	ug/l	25.0		99	85-115			
<b>Matrix Spike Analyzed: 11/15/2008 (8K14067-MS1)</b>										
Perchlorate	25.8	2.0	ug/l	25.0	1.74	96	80-120			
<b>Matrix Spike Dup Analyzed: 11/15/2008 (8K14067-MSD1)</b>										
Perchlorate	29.0	2.0	ug/l	25.0	1.74	109	80-120	12	20	

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Layne Christensen  
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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## DATA QUALIFIERS AND DEFINITIONS

<b>C</b>	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
<b>FT</b>	This analysis was performed in the field by the sampler whose name appears on the attached Chain of Custody form.
<b>H</b>	Sample analysis performed past method-specified holding time.
<b>HFT</b>	Holding time for this test is defined as either immediately or 15 minutes from collection. Analysis was performed at the laboratory.
<b>HFTa</b>	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
<b>L</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
<b>M1</b>	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>M2</b>	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>M-3</b>	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
<b>MHA</b>	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
<b>MNR1</b>	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
<b>pH</b>	pH = 7.5
<b>R-7</b>	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
<b>RL1</b>	Reporting limit raised due to sample matrix effects.
<b>ND</b>	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
<b>RPD</b>	Relative Percent Difference
<b>T.O.N.</b>	Threshold Odor Number
<b>SI Units</b>	Saturation Index Units

TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

## Certification Summary

### TestAmerica Ontario

Method	Matrix	Nelac	California
EPA 150.1	Water	X	N/A
EPA 180.1	Water	X	X
EPA 504.1	Water	X	X
EPA 505	Water	X	X
EPA 515.4	Water	X	X
EPA 524.2	Water	X	X
EPA 525.2	Water	X	X
EPA 531.1	Water	X	
EPA 547	Water	X	X
EPA 548.1	Water	X	X
Field Test	Water		
SM2120B	Water	N/A	N/A
SM2150B	Water	N/A	N/A

### Subcontracted Laboratories

#### EMS Laboratories-Sub California Cert #1119

117 West Bellvue Drive - Pasadena, CA 91105-2503

Analysis Performed: Asbestos By TEM  
Samples: CRK0176-01

#### STL - St. Louis

13715 Rider Trail North - Earth City, MO 63045

Analysis Performed: Gross Alpha 900.0  
Samples: CRK0176-01

Analysis Performed: Radium 226  
Samples: CRK0176-01

Analysis Performed: Radium 228  
Samples: CRK0176-01

### TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

**TestAmerica - Irvine, CA** Nelac Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA-72

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: Calc  
Samples: CRK0176-01

Method Performed: EPA 150.1  
Samples: CRK0176-01

Method Performed: EPA 160.2  
Samples: CRK0176-01

Method Performed: EPA 200.7  
Samples: CRK0176-01

Method Performed: EPA 200.8  
Samples: CRK0176-01

Method Performed: EPA 218.6  
Samples: CRK0176-01

Method Performed: EPA 245.1  
Samples: CRK0176-01

Method Performed: EPA 300.0  
Samples: CRK0176-01

Method Performed: EPA 314.0  
Samples: CRK0176-01

Method Performed: EPA 350.3  
Samples: CRK0176-01

Method Performed: EPA 365.3  
Samples: CRK0176-01

Method Performed: SM 3500-Fe D  
Samples: CRK0176-01

Method Performed: SM 4500-F-C  
Samples: CRK0176-01

Method Performed: SM2320B  
Samples: CRK0176-01

Method Performed: SM2340B  
Samples: CRK0176-01

Method Performed: SM2510B

## TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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Layne Christensen  
11001 Etiwanda Avenue  
Fontana, CA 92337  
Attention: Tony Morgan

Project ID: \_Standard Pricing  
\_Standard Pricing  
Report Number: CRK0176

Sampled: 11/05/08  
Received: 11/05/08

**TestAmerica - Irvine, CA** Nelac Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA-72

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Samples: CRK0176-01

Method Performed: SM2540C  
Samples: CRK0176-01

Method Performed: SM4500-CN-C,E  
Samples: CRK0176-01

Method Performed: SM4500-CO2 C  
Samples: CRK0176-01

Method Performed: SM5210B  
Samples: CRK0176-01

Method Performed: SM5310C  
Samples: CRK0176-01

Method Performed: SM5540-C  
Samples: CRK0176-01

## TestAmerica Ontario

Charles R. Morrow For Melissa Cunningham  
Project Manager

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SUBCONTRACT ORDER

TestAmerica Ontario

CRK0176

SENDING LABORATORY:

TestAmerica Ontario  
1014 E. Cooley Dr, Ste A  
Colton, CA 92324  
Phone: (909) 370-4667  
Fax: (909) 370-1046  
Project Manager: Melissa Cunningham

RECEIVING LABORATORY:

EMS Laboratories-Sub  
117 West Bellvue Drive  
Pasadena, CA 91105-2503  
Phone :626-568-4065  
Fax: 626-796-5282  
Project Location: CA - CALIFORNIA  
Receipt Temperature: \_\_\_\_\_ °C      Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: CRK0176-01	Water		Sampled: 11/05/08 12:45	
Asbestos By TEM-O	Present/Not Pres	11/18/08	11/07/08 12:45	
Containers Supplied:				
1 Liter Poly (AA)				

*Michael Dasso*

Released By

*11-6-08 1230*

Date/Time

*[Signature]*

Received By

*11-6-08 12:37*

Date/Time

Released By

Date/Time

Received By

Date/Time

DATE: November 13, 2008  
CLIENT: TestAmerica, Ontario  
1014 E. Cooley Dr, Ste. A  
Colton, CA 92324  
ATTENTION: Melissa Cunningham  
REFERENCE: CRK0176  
REPORT NO: 125170  
SUBJECT: ANALYSIS OF WATER SAMPLE FOR ASBESTOS BY TEM  
ACCREDITED: California Department of Health Services (ELAP-1119)

The date and times of collection, receipt, filtration, and analysis are as follows:

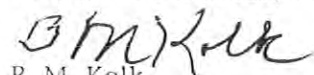
SAMPLE NO: CRK0176-01  
COLLECTED: 11/5/08 at 1245  
RECEIVED: 11/6/08 at 1237  
FILTERED: 11/6/08 at 1430  
ANALYZED: 11/13/08

The sample was analyzed for fibers  $>10\ \mu\text{m}$  in length to conform with the drinking water document, EPA 600 R 94 134, 100.2. This regulation calls for an MCL (maximum contaminant level) of 7 MFL and an analytical sensitivity level of 0.2 MFL.

No asbestos structures  $>10\ \mu\text{m}$  in length were detected. The analytical sensitivity of 0.2 MFL was reached.

The results of the analysis and the detection limit are summarized on the following pages.

Respectfully submitted,  
EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

LAB NO: 125170  
CLIENT: Test America  
11/13/2008

\* FOR FIBERS > 10μm ONLY

\* FOR FIBERS > 10μm ONLY

Authorized Signature

 **EMS LABORATORIES** 117 West Bellevue Drive / Pasadena CA 91105-2503 / 626-568-4065

**Analysis of Water by Transmission Electron Microscopy**  
(EPA-600 R 94 134) EPA 100.2

EMS No.	125170	Client	Test America
Sample No.	CRK0176-01	Date Analyzed	11/13/2008

Fibers > 10 µm in length (chrysotile)	<u>BDL*</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Poisson 95% Confidence Interval	<u>0 to 0.7</u>	MFL
Detection Limit	<u>0.2</u>	MFL

\* BDL : Below Detection Limit; MFL: Million Fibers per Liter

**Particle Size Distribution ( Chrysotile )**

Particle Length - Microns							
O - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 - 4.99	5.00 - 9.99	10 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Particle Width - Microns							
O - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 - .49	.50 - .99	1 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Aspect Ratio L/W							
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 - 99	100 - 199	200 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

TEM 7B (1994)

**Analysis of Water by Transmission Electron Microscopy  
(EPA-600/4-83-043)**

**EMS No.** 125170

**Date Analyzed** 11/13/2008

**Client** Test America

**Sample No.** EMS BLANK

Fibers (chrysotile)	<u>ND</u>	MFL
> 5 Micron length (chrysotile)	<u>ND</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Sensitivity Level	<u>0.01</u>	MFL

**Particle Size Distribution ( Chrysotile )**

**Particle Length - Microns**

0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**Particle Width - Microns**

0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**Aspect Ratio L/W**

0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

